

# **Replenishment – Training Manual**

# LS Retail NAV 6.3

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# 1 LS Retail – Replenishment: Overview

## 1.2 Objectives

The objectives for this chapter are

- **Overview** over the course
- Getting information on the demonstration data
- Introducing the basic functionality

## 2 Basic Information

This introduction contains prerequisites and useful information about the product training course.

This LS Retail course is mainly an instructor-led training course but can provide guidance for self-learning. The chapters contain instructional text, which introduces an area of the program and examples of how this area works.

## 2.2 Target Audience

The course is intended for people who are responsible for the replenishment process in a Purchase Department. It demonstrates how the LS Retail Replenishment system can be used to suggest which items are to be replenished for the stores and a central warehouse.

The Replenishment system inspects selected items and comes up with a suggestion of how much needs to be ordered, either from a vendor or from the central warehouse.

This introduction contains prerequisites and useful information about the LS Retail Replenishment training course.

This document is not intended for end-user training and partners are not allowed to give this documentation without written permission from LS Retail.

## 2.2.1 Course Prerequisites

Participants need to have a good basic knowledge of Microsoft Dynamics NAV.

## 2.2.2 About the Demonstration Data

All exercises are based on a fictitious company, CRONUS International Ltd (CRONUS LS 2009 (6.3)W1 Demo-v8), which started in May 2005 with two food markets, two fashion stores, one electric store, and a restaurant combined with pizzeria and call center.

The CRONUS International Ltd. Company is divided into five stores a restaurant and a head office. The stores are called CRONUS Super Market South, CRONUS Food Market North, CRONUS Fashion Store North, CRONUS Fashion Store South, CRONUS Electrical Store South and the CRONUS Restaurant. There are several POS Terminals and Cashiers per store.

Item Divisions are Food and NonFood. The item categories are: Audio/HiFi, Beverages, Clothing, Dairy Products, Drinks, Fruit and Vegetables, Home Appliances, Meals and Stationary. Each item category is divided into several product groups.

## 2.2.3 Dates

The dates shown in the screenshots have the European format. Therefore, if you use a different date format, there will be differences between the solutions in the training material and your solutions.

The demo data is designed for the work date 15.08.07. It is important that this date is used when performing the activities.

## 2.2.4 License Information

If you are using the demo-database, you need your Microsoft Dynamics NAV developer license to run the examples in this course.

## 2.2.5 Further Information

A separate document for Demand Plan is available with the LS NAV 2013.00.01. For further information about the LS Retail training course, refer to: <a href="mailto:support@LSRetail.com">support@LSRetail.com</a>

## 2.3 Overview of Functionality

Following is an overview over the main functionality available in LS Retail.

## 2.4 Items

Items are the fundamental units in the LS Retail system. An item in LS Retail is actually an item from the Microsoft Dynamics NAV standard application, but with extensions made for the retail industry. In addition to the Navision standards items, LS Retail includes numerous features that concern item sales at the point of sale.

## 2.5 The Replenishment Module

The purpose of the Replenishment Module is twofold:

- It can be used to assist the purchasing department with the distribution of new items to stores for the first time
- It can make Purchase Order or Transfer Order suggestions based on the four different calculation methods mentioned below.

The Replenishment Module is used to assist the purchasing department in making purchase orders and also to assist the warehouse with suggesting what needs to be transferred to the stores.

The LS Retail Replenishment System calculates the quantity needed at the stores or the central warehouse and suggests what needs to be purchased from the vendors. It will also help with the distribution of items from a central warehouse to stores, both when the order arrives at the central warehouse (Planned Cross Docking) and if it is decided to push items from the central warehouse to the stores (Buyer's Push).

LS Retail Replenishment offers you the option to replenish warehouses and/or stores by way of Purchase Order documents and/or Transfer Order documents.

LS Retail Replenishment can be automatic, for instance by running automatic Scheduler job as an overnight process.

The Replenishment processes are executed at the Head Office.

The system can suggest the quantity to replenish according to four different calculation types or methods. It is also possible to manually allocate quantities to be distributed to the stores.

The four different calculation types are:

- Average Use
- Manual Estimate
- Stock Levels
- Like-for-Like

These methods and their associated parameters are set up in the Retail Item Card but overrides for certain items and locations can be also be defined.

## 2.5.1 Automatic and Manual Replenishment

Automatic Replenishment is mostly used if a sales history is available, but it is not necessary. Sales history can be copied as a start, or Manual Replenishment used for instance the first 2 weeks but after that turn to the the Average (automatic) setting.

## Example:

Men's underwear is an example of the kind of items where changes in sales history are not usual. It is therefore ideal for Automatic Replenishment.

Normally one would use **like-for-like** to replace items that are removed with the same number and kind of items. This is suitable unless one needs the replacements to happen fast, since **like-for-like** needs to be in posted state before the replacement items are required.

**Manual Replenishment** is used for instance for fashion and seasonal items where for instance more control is needed regarding speeding up the process.

## 2.5.2 Abbreviations and Definitions

Note that the words card, form and table are all used to describe the same part of the LS Retail NAV solution. You will find them called Cards in the solution, but also Form or a Table, the last one often when entering or changing data in a table.

## 3 Reoccurring Items

## 3.2 Defining Stores and Items to Replenish Automatically

Using the solution you need to know which items and stores to replenish using which methods and parameters. It is essential that this information is properly organized and defined.

The combination of store and item determines whether the item is replenished.

## 3.2.1 Store

For each store record, at least one location is defined for the selling of goods. The replenishment information is defined on the location record, **LS Retail – Replenishment, Setup, Replenishment, Locations**, the fields are:

• Active for Automatic Replenishment - needs to be set so the location/store is valid for automatic replenishment.

BLUE Blue Warehouse - Location Card	
General Communication Warehouse Bins Bin Policies Replenishment	
Replenishment Group LARGE 🕥 Replenish as Location	
Replenishment Weight 60,00	
Default Replenishm. G	
Active for Autom. Repl.	
Use Planned Cross Do 🔽	
Location is a Warehouse. 📝	
	м нер

- Use Planned Cross Docking The field needs to be active to be visible in the Location list in the Cross Dock and Buyer's Push Matrix forms.
- Location is a Warehouse should be set if the location record is for a warehouse and should be off if the location is for a store.
- **Replenish as Location** the system will use this location code to find sales history information when calculating the average daily sale when the replenishment calculation method is *Average Usage*.

## To access the store's Location card

1. LS Retail – Back Office, Setup, Store Card and open the Location Code drop down list

🗊 S0004 Cronus Fashion Store South - Store Card		Location List		- 6	
General Statement/Closing Numbering Management		Code	Name	Replenish	Defa
		BLUE	Blue Warehouse	LARGE	-
No	Currency Code	GREEN	Green Warehouse		
Name Cronus Fashion Store South	POS Func. Profile DEMO 👔	HO	Head Office		
Address	POS Inventory Lookup 🗸	ISDIFFER	InStore Mgt Difference		
	POS Check 7-Report.	OUT. LOG.	Outsourced Logistics		
Address 2		OWN LOG.	Own Logistics		
Post Code/City W2 8HG 🗈 London	Responsibility Center	RED	Red Warehouse		
Country Code GB	Department Code SALES 💼	SILVER	Silver Warehouse		
Language Code	Project Code	S0001	Cronus Super Market South	LARGE	
	Location Code 50004	S0001SPO	Cronus Super Market South SPO		
Phone No +44 5555 666666		S0002	Cronus Super Market North	LARGE	
Store Open from 09:00:00	Data Access Control	S0002SPO	Cronus Super Market North SPO		
	No Shelf Label Printing	S0003	Cronus Fashion Store North	MEDIUM	
Store Open to		S0003SPO	Cronus Fashion Store North SPO		
Store Open After Midn	No Item Label Printing	► S0004	Cronus Fashion Store South	MEDIUM	
Distribution Group FASHION	Last Date Modified 11.07.11	S0004SPO	Cronus Fashion Store South SPO		
· · · · · · · · · · · · · · · · · · ·		S0005	Cronus Restaurant	SMALL	
Store 🔻	Sales  Functions  Help	S0007	Cronus Electrical Store South	MEDIUM	
		S0007SPO	Cronus Electrical Store S. SPO		-

- 2. Select a store location
- 3. On the Location List card: Press the Location button, Card

Loc	ation 🔻 Help	
	Card	Shift+F5
	Resource Locations	
	Zones	
	Bins	

4. The store's Location Card appears.

50002 Cronus Super Ma	rket North - Locati	on Card		
General Communication	Warehouse Bins	Bin Policies	Replenishment	
Replenishment Group	LARGE	)	Replenish as Location	
Replenishment Weight	50,00			
Default Replenishm. G	A 🚺	)		
Active for Autom. Repl				
Use Planned Cross Do				
Location is a Warehouse.				
			Location	▼ Help

## 3.2.2 Item

There are two methods of defining which items should be automatically replenished; that is by:

- Item Category/Grade
- Store Groups

The system can only use one method at a time and this is defined in the Replenishment Setup.

III Replen. Setup	- • •
General Numbering Stock Out Functionality Vendor Performance Effective Inventory	
Store Items Ranged By . [tem Category/Grad]	
Default Central Wareh W0001	
Default In-Transit Code ,OWN LOG.	
Replen. Source Code REPLEN	
Calc. Qty. Sold not Po	
Create Retail Purch. O 🔽	
Create Calc. Log Lines 🔽	
Autom. Insert from Ite	
Replenis 💌	Help

## 3.2.2.1 Replenishment Grades

Replenishment Grades are used to determine if an item is to be automatically replenished for a given store or a location. A location has a field called **Default Replenishment Grade Code** and Items have a Replenishment Grade as well.

## 3.3 Scenario 1 – Automatic Replenishment

John Smith at CRONUS has decided to let the system determine whether an item is to be automatically replenished. This means that the system needs to find the Replenishment Grade Code for the Item and the Replenishment Grade Code for the Location and compare them. If the Item Replenishment Grade Code is smaller than or equal to the Store Replenishment Grade Code, the Item will be automatically replenished.

**Example:** In this case this is what the system does:

The item in question has the Replenishment Grade Code D and the Store Replenishment Grade Code B. The Item will be automatically replenished in that particular store. Items with the Grade Code D should be replenished for all stores with the Grade Codes A, B, C and D.

In the Replenishment Grade form John Smith can define the levels according to the way he wants to grade the stores (or locations) and items:

📰 Replen. Gra	ade	
Code	Description	
► A	Extra-Large Full Range Stores	
В	Large Stores	
C	Medum Size Stores	
D	Medium-Low Stores	
E	Small Stores	
		~
		Help

1. In the **Default Replenishment Grade Code** field he can set up the Replenishment Grade Code for the location since in this case the **Store Items Ranged By** field is set to *Item Category/Grade*. See the following **NOTE**.

🗊 S0002 Cronus Super Market North - Location Card	
General Communication Warehouse Bins Bin Policies	Replenishment
Replenishment Group LARGE	Replenish as Location
Replenishment Weight 50,00	
Default Replenishm. G A	
Active for Autom. Repl	
Use Planned Cross Do	
Location is a Warehouse .	
	Location ▼ Help

## NOTE:

The Default Replenishment Grade field is only shown if the **Store Items Ranged By** field is set to *Item Category/Grade*.

2. It is possible to override the Replenishment Grade Code for this location for selected item categories by pushing the **Location** button and selecting *Replenishment Item Category Grades*. This is exactly what John Smith has decided to do.

Loc	ation V Help	
	List	F5
	Resource Locations	
	Replenishment Item Category Grades	
	Store Capacity	
:	Zones	
	Dins	
	Online Map	

## NOTE:

The Replenishment Grades only come into effect if the **Store Items Ranged By** field in the Replenishment Setup form has the value *Item Category/Grade* and not *Store Groups*.

em ategorv	Grade Code	Item Category Description	Replenishm, Grade Description	
RAGES 🚹	)	Audio/HiFi		
F	tegory ≀AGES	itegory Grade Code	Audio/HIFi	Audio/HiFi       Replenishm. Grade Description         Audio/HiFi       Audio/HiFi

This information is only relevant if you decide to use Item Category/Grade to select items for replenishment as in this case.



3.3.1 Store Groups

The *Replenishment Store Group – Item Distribution* definitions are used to determine if an item is to be automatically replenished for a given store or a location. The Item Distribution table controls the product range of stores. An Item Distribution line can be defined to one store, group of stores, or all stores.

The following values need to be set for the item for it to be valid for automatic replenishment:

- Status = Active
- Order by = Central
- Ordering Method = Calculate

🗊 1000 Bicycle Retail Item Card
Sortorder: . No. Filters:
Item Description
No 1000 2 Unit Price 4.000,00
Description Bicycle Unit Price Including VAT . 0,00
Division Code 📄 Price Includes VAT 🔲
Item Category Code 🕥 🕥 VAT Bus. Posting Gr. (
Product Group Code DCS (*)
General Invoicing Ordering POS Pricing Distribution Tracking Merchandising Attributes 3rd P.POS
Type Code Status Ordered by Ordering Method to. of Facings
Store     Active     Calculate     D     Active     D     D     Active     Calculate     O     D     Active     Central     D     D     Active     Central     D     D     Calculate     O     D     Calculate     O     D     D     Calculate     O     D     Calculate     O     D     Calculate     O     D     Calculate     O     Calculate     <
Item V Sales V Purchases V Functions V Help

If more than one Item Distribution record is valid for a specific store (all stores, group of store or one store), the system will select the record that is the most specific (*One Store* being the most specific and *All Stores* the least). The priority of store groups is defined in the Store Card.



Order by	Ordering Method	
Store	By Hand	Purchase Order Documents, Purchasing
		Worksheet / used at the store
Store	Calculated	The Purchasing Worksheets can execute the
		standard NAV Requisition Process
Centrally (Head Office)	By Hand	The Buyer uses the Allocation part of the
		Replenishment module (Purchase Order with
		Cross Docking and Buyers Push)
Centrally (Head Office)	Calculated	The Reoccurring part of the Replenishment
		module is used to replenish warehouses and
		stores.

#### Example:

💷 40000 Swimsuit Liz Beach 2 - Retail Item Caro	ł		
Sortorder: , No.	Filters:		
Item Description			
No	ø	Unit Price	72,80
Description Swimsuit Liz Beach 2		Unit Price Including	VAT . 91,00
Division Code NONFOOD		Price Includes VAT.	🗖
Item Category Code CLOTHING		VAT Bus. Posting Gr	r. ( NATIONAL 👚
Product Group Code WOMEN-S		Base Unit of Measu	re PCS 💼
General Invoicing Ordering POS Pricing	Distribution Tracki	ng Merchandising	Attributes 3rd P.POS
Season Code SUMMER07	Rep	lenishment Calcula	Manual Estimate 💌
Lifecycle Length	Red	order Point	0
Lifecycle Starting Date.	Ma	kimum Inventory	0
Lifecycle Ending Date	Pur	ch. Order Delivery	To Warehouse 💌
Item Status Code OPENST Open fr	Ver	dor No	44010 🖈
Item Status Date 15.05.07	Tra	nsfer Multiple	0
Blocked on POS Block Discount	Ord	ler Multiple	0
Block Durchasing Block Discounter P	rice Mai	nual Estimated Daily	5
Plack Transform	Sto	re Stock Cover Req	10
Block Manual Price	Cha Wa	reh Stock Cover Re	20
Item Error Check Code .			
Item Error Check Status . Unchecked			
Item Capacity Value 0,00			
Replen. Distribution R			
Replenishment Grade C		Active for Replenis	Location Details Exist
Item 🔻	S <u>a</u> les 🔻 🗄	urchases 👻 Fun	ictions 🔻 Help

The Item above has the Replenishment Grade Code C. Items with the Grade Code E should be replenished for all stores with the Grade Codes A, B and C.

The example below shows that an item with D grading will be replenished to all stores, that are A,B,C or D graded stores. Item with C grading will be replenished to stores that are A,B or C graded and so on.

	Item				
S		Α	В	С	D
t	Α	х	х	х	х
0	В		х	х	х
e	С			х	х
s	D				х

## 3.3.2 Item Validity

There are some factors that can make an item invalid for automatic replenishment.

## Item Blocked

If the field **Blocked** is active in the Item record, the item is not valid for automatic replenishment.

#### Hint:

An item is made invalid in the Replenishment Item Quantity calculation batch job.

#### Item Status Purchase Orders / Transfer Orders (PO/TO)

The Item Status table defines the status of the item regarding blocking Purchase Orders and/or Transfer Order. If an item is blocked for an order type, it is invalid for that Replenishment Journal job.

#### Hint:

The Replenishment Item Quantity calculation batch job does not create a record in the Replen. Item Quantity table if the item is blocked for both Purchase and Transfer Orders. However a record is created if only one of the two is blocked. At the time of populating the Replenishing Journals the item that is blocked for the type of Replenishment Journal will not be added to the journal, for example if blocked for Transfer Order and the journal is a Transfer Order Journal.

#### Replenishment Data from Item, Item Store or Data Profile records

The fields: **Not Active for Replenishment** and **Exclude from Autom. Replenishm.** can make an item invalid for replenishment. These fields can be set in Item, Item Store or Data Profile records.

## 3.3.3 Warehouse

The Replenishment Module supports Retail companies with or without warehouses.

🗊 Replen. Setup	- • ×
General Numbering Stock Out Functionality Vendor Performance Effective Inventory	
Store Items Ranged By	
Default Central Wareh W0001	
Default In-Transit Code . OWN LOG.	
Replen. Source Code REPLEN	
Calc. Qty. Sold not Po	
Create Retail Purch. O 🔽	
Create Calc. Log Lines 🔽	
Autom. Insert from Ite	
<u>R</u> eplenis 🔻	Help

For companies with warehouses the default warehouse can be defined in Replen. Setup by selecting it in the **Default Central Warehouse** field. By doing this you specify the warehouse to be used for all items. If there is more than one warehouse in the system, the exceptions from the **Default Central Warehouse** are registered in the Replen. from Warehouse table. Pressing the **Replenishment** button on the **Replen. Setup** card leads to the **Replen. from Warehouse** table and it is also possible to access the table from LS Retail – **Replenishment, Setup, Replenishment, Replen. From Warehouse**.

1	Division C	Item Cate	Product G	Item No.	Store Loc	Warehous	Division Description	Item Category Description	Product Group Description	Item Description
·					S0002	W0002				
	NONFOOD	AUDIO	ACC			W0002	Nonfood Items	Audio/HiFi	Accessories	
	NONFOOD	CLOTHING	WOMEN-S	40000	S0004	W0002	Nonfood Items	Clothing	Women-s Clothing	Swimsuit Liz Beach 2 dffef
٦	NONFOOD	HOMEAPPL				W0002	Nonfood Items	Home Appliances		
1										
1										
1										
1										
1										
t										
ł										
1										

It is possible to define the warehouse to a Division, Item Category, Product Group, Item No. and/or Store Location. If more than one record is valid for the Item and Location combination, the most specific record is selected where Division is the least and Store Location is the most specific.

## 3.4 Scenario 2 – Two Shop Supplies from one Warehouse

It has been decided that all items for Store S0002, which is the code for the two CRONUS locations in Brighton, England, will be replenished from the W0002 warehouse at the waterfront. This means that both locations get all their supplies from this one warehouse.

## 3.5 Scenario 3 – Multiple Warehouses

The CRONUS shop in Lancaster, England, gets the supplies mainly from Warehouse 1 that is located near the town center but for the largest items that belong to the Item Category HOMEAPPL are stored in Warehouse 2 (W0002) that is located about 20 miles away from town, between Lancaster and Blackpool.

#### Attention:

If the retailer does not have a warehouse, the head office can replenish the store by running Purchase Order Journals where the Purchase Order is delivered to the store.

A default warehouse is defined in the Replenishment System when needed.

#### **Control Data**

The Replenishment process uses Item Data to decide the quantity to replenish and which calculation methods and parameters are to be used.

The data can be kept in different places in the system and there is a certain Replenishment Data Hierarchy.

## 3.5.1 Replenishment Data Hierarchy

The Replenishment Data can be kept in five types of records: the Item Store, Item, Product Group, Item Category and Division.

The Item Store record has the highest priority and the Division record the lowest.

(5) Division Record	Data Profile
(4) Item Category Record	Data Profile
(3) Product Group Record	Data Profile
(2) Item Record	Record hold data or Data Profile
(1) Item Store Record	Record hold data or Data Profile

- 1 The system will first look for Item Store records. Record with no link to data profile has more priority than records with link to a data profile. If records are found the data from the most specific record is used for the replenishment calculation.
- 2 Then the system looks for an Item record and if the Calculation type is *Automatic – From Data Profile* and the Data Profile Code is defined in the Item record, it will use the data from the Data Profile record, otherwise it will look up the hierarchy starting with the Product Group record. When the Calculation type is not *Automatic – From Data Profile* the system will use the data in the

item record

- 3 Next the system will check if the Product Group record contains a Data Profile Code and uses it if specified. If the Data Profile Code is not specified it goes to the next level.
  - The Product Group record can only contain a pointer to a Data Profile Record.
- 4 Next the system will look if the Item Category record contains a Data Profile Code and uses it if specified. If the Data Profile Code is not specified, it goes to the next level. The Item Category record can only contain a pointer to a Data Profile Record.
- 5 Next the system will look if the Division record contains a Data Profile Code and uses it if specified. If the Data Profile Code is not specified then it goes to the next level. The Division record can only contain a pointer to a Data Profile Percent.

The Division record can only contain a pointer to a Data Profile Record.

## 5.2.1 Item Record

The LS Retail Replenishment system has added a number of new fields to the Item Table.

There are three ways the Item record can contain or point to the Replenishment Data:

- 1. The Item record holds specific Replenishment Data.
- 2. If the Calculation Type is *Automatic From Data Profile* and the **Replen. Data Profile** field is filled out and points to the Data Profile record.
- 3. It the Calculation Type is *Automatic From Data Profile* and the **Replen. Data Profile** field is blank, the system uses the Item Hierarchy to supply the Data Profile.

Following is a list of the new fields. Their purpose and use will be described in this document as the functionality where they are relevant is explained:

Some of these fields are visible only for certain Replenishment Calculation Types.

- Replenishment Calculation Type
- Manual Estimated Daily Sale
- Store Stock Cover Reqd (Days)
- Wareh Stock Cover Reqd (Days)
- Replenishment Sales Profile
- Maximum Inventory (standard NAV field)
- Reorder Point (standard NAV field)
- Replenishment Grade Code
- Not Active for Replenishment
- Exclude from Autom. Replenishm
- Transfer Multiple
- Order Multiple
- Range in Location
- Store Forward Sales Profile

- Wareh. Forward Sales Profile
- Purch. Order Delivery
- Replenish as Item No.
- Repl. as Item No-Method
- Replen. Data Profile
- Like4Like Replen. Method
- Like4Like Process Method
- Vendor No. (standard NAV field)
- **Replen.** Distribution Rule Code

## 5.2.2 Item Store Record

In the Replenishment Item Store Record you can enter replenishment parameters for a certain item, variant and location. The information stored in this record overwrites the information in the Retail Item card.

The Item Store Record contains all the same Replenishment Data fields as the Item record.

The Item Store record is found under the Retail Item Card: Click on the **Item** button, select **Replenishment** and then **Replenishment Item Store**.

🗊 untitled - Replen. Item Store Rec	
General Quantities	
Item No	Replenishment Calcula Automatic - Fr 💌
Variant Code 032 💼	Replen. Data Profile
Location Code	
Active From Date	
Range in Location	
Not Active for Repleni	
Automatic Replenishment	
Replenish as Location	
	Default Replenishment
	Replenishment Grade
	Item Store 🔻 Help

The record only shows relevant fields according to the value of the **Replenishment** Calculation Type field.

On the *General* tab you can fill in the **Item No.**, the **Variant Code** for items with variants, the **Location Code** and the **Active From Date**. The **Item No.** is automatically filled in if you open the Replenishment Item Store Rec. form from the Retail Item card. You can only enter a valid variant code in the **Variant Code** field. Use the lookup functionality to select the **Location Code**.

You can have new parameters take effect on a certain date if you fill in the **Active From Date** field.

On the Quantities tab you can see the **Inventory**, **Quantity on Purchase Order**, **Quantity on Sales Order**, **Quantity in Transfer In**, **Quantity in Transfer Out** and the **Adjusted Sales** quantity.

🗊 1000 - Replen. Item Store Rec	- • •
General Quantities	
All Locations	
Inventory 0	
Quantity on Purchase 0	
Quantity on Sales Order . 0	
Quantity in Transfer In . 0	
Quantity in Transfer Out. 0	
Adjusted Sales 0	
Date of First Sale	
Sales Date From	
Sales Date To	
No. of Sales Days 0	
No. of Days out of Stock.	
Daily Sales 0	
Item Store 💌	Help

The key for the Item Store record is **Item No. + Variant Code + Location Code + Active From Date** where **Item No**. needs to be filled in and one of the other fields also. This gives you the chance to create specific Replenishment Data for specific store or new data that will take effect in the future.

Examples:

Item No	40060 🚹
Variant Code	( )
Location Code	50001
Active From Date	

This record would be valid for all Variants and Store/Location S0001.

Item No			40060 🛨
Variant Code			002 主
Location Code			( )
Active From Date .			

This record would be valid for the Variant 002 on Item 40060 in all Stores/Locations.

Item No	40060 🛨
Variant Code	( )
Location Code	( )
Active From Date	01.10.07

This record would be valid for all Stores/Locations and all Variants but not until the 01.10.2007.

1. This way it is possible to plan replenishment when the item is created and all the way through its life cycle.



## Example:

Following is an example of item lifecycle replenishment. First, there is an estimation of 5 pieces sold pr. day for 3 weeks and then the system will use the sales history of the item for the next 16 weeks and towards the end of the life cycle of the item, the Stock Levels method is used to phase out the item from the store.

## 5.2.3 Data Profile

The Data Profile record makes it possible to define Replenishment Data to an independent Item record. By filling in the **Active From Date** field it is possible to change the data and it will not be valid until on the date specified. Then the Data Profile can be connected to Item Store, Item and all levels of the Item Hierarchy.

## 5.3 Scenario 4 – Changing Data Profile records

It is possible to maintain Replenishment Data for many items by changing the Data Profile record. When the replenishment job is run, the system finds the Data Profile records and uses the Replenishment Data when calculating the replenishment suggestion.

For customers, like John Smith at the music department CRONUS, that have relatively similar replenishment data for the majority of the items, the Data Profile will minimize the work in maintaining the replenishment data.

#### Hint:

It important to analyze the patterns of the replenishment data, use as many Data Profiles as possible and to connect them to the Item Hierarchy. Try to put specific data to the Item and Item Store records.

#### Example:

🗊 DVD - Replen. Data Profile Card	
General	
Code	Replenishment Calcula       Manual Estimate •         Reorder Point
Effective Inv. Transfe Include	Wareh Stock Cover Re 30 Replenishment Grade
	Data Profile 💌 Help

## A Data Profile record for DVDs

Image: 60200 Casablanca (1943) - Retail Item Card       Sontorden - No.   Filters:	×
Sortorden: No. Filtersi.	
Item Description	
No 60200 🥒 Unit Price	
Description Casablanca (1943) Unit Price Including VAT . 32,50	
Division Code NONFOOD 👔 Price Includes VAT 🥅	
Item Category Code AUDIO 🔹 VAT Bus. Posting Gr. ( NATIONAL 🍙	
Product Group Code DVD 🔿 Base Unit of Measure PCS 😭	
General Invoicing Ordering POS Pricing Distribution Tracking Merchandising Attributes 3rd P.POS	
Season Code	
Lifecyde Length DVD 👔	
Lifecycle Starting Date From Item .	
Lifecyde Ending Date DVD 🗈	
Item Status Code	
Item Status Date	
Blocked on POS Block Discount . Block Sale in SO	
Block Purcha Block Promoti Block Sales R	
Block Purch R Block Periodic Block Neg. A	
Block Transfers. Block Manual Block Pos. Ad	
Item Error Check Code .	
Item Error Check Status . Unchecked	
Item Capacity Value 0,00	
Replen. Distribution R	
Not Active for Replenis	
Item 🔻 Sales 💌 Purchases 💌 Functions 💌 Hel	

The Data Profile is connected directly to the Item record.

60200 Casablanca (1943) - Retail Item Card								
Sortorder: . No.	Filters:							
Item Description								
No	/	Unit Price		26,00				
		Drive Test		32,30				
DMSIDE CORE		Price Inci	Jdes VAL					
Item Category Code AUDIO		VAT Bus.	Posting Gr. ( NATIONAL	٠				
Product Group Code DVD 👔		Base Unit	of Measure PCS	۲				
General Invoicing Ordering POS Pricing	📰 Item Categori	ies						x
Season Code				<b>a</b> 1 11	n i nui			
Lifecyde Length	Division C	Code	Description	Replenish	Replen. Distribu	. Replen. Data P	r Item Hier	·
Lifecycle Starting Date.	► NONFOOD		AUGIO/HIFI Clathing	DEFAULT				- ^
Lifecycle Ending Date	NONFOOD	FUE	Fuel	DEFAULT		CLOTHING		
	NONFOOD	FURNIT	Office furniture	DEFAULT				
Item Status Code	NONFOOD	GIFT CA	Gift Cards	DEFAULT				
Item Status Date	NONFOOD	HOMEAPPL	Home Appliances	DEFAULT				
Blocked on POS 📃 Block Discount . 📃 Block	NONFOOD	MISC	Miscellaneous	DEFAULT				
Block Purcha Block Promoti Block	NONFOOD	PHARMACY	Pharmacy	DEFAULT				
Block Purch R Block Periodic Block	NONFOOD	STATIO	Stationary	DEFAULT				
Block Transfers Block Manual Block								Ŧ
Item Errer Check Cede							•	
			ſ	OK	Cancel	Item Cat	Help	
Item Error Check Status . Unchecked				<u>on</u>	Contect	( <u> </u>		
Item Capacity Value 0,00								
Replen. Distribution R								
	No	LACTIVE TOP H	epienis					
	-							
	Item 🔻	Sales	▼ Purchases ▼ F	unctions 🔻	Help			

The Data Profile is connected to an Item Category record.

60200 Casablanca (1943	) - Retail Item Card	- • •
Sortorder: . No.	Filters:	
Item Description		
No	60200 / Unit Price	
Description	Casablanca (1943) Unit Price Including VAT . 32,50	
Division Code	NONFOOD  Price Includes VAT	
Item Category Code	AUDIO 🔹 VAT Bus. Posting Gr. ( NATIONAL 🕥	
Product Group Code	DVD  Base Unit of Measure PCS	
General Invoicing Ord	ering POS Pricing Distribution Tracking Merchandising Attributes 3rd P.POS	
Season Code	Replenishment Calcula Automatic - Fr 💌	
Lifecycle Length	Active Replen. Data Pr DVD	
Lifecycle Starting Date	From Item .	
Lifecycle Ending Date	Replen. Data Profile DVD 🗈	
Item Status Code		
Item Status Date		
Blocked on POS 📃 Bloc	k Discount . 📃 Block Sale in SO	
Block Purcha Bloc	k Promoti Block Sales R	
Block Purch R Bloc	k Periodic Block Neg. A	
Block Transfers. Bloc	k Manual Block Pos. Ad	
Item Error Check Code .		
Item Error Check Status .	Unchecked	
Item Capacity Value	0,00	
Replen. Distribution R		
	Not Active for Replenis	
	Item V Sajes V Purchases V Functions	- Help

The item record replenishment data is inherited from the Item Category record of the item.

This option is useful for the CRONUS music department and therefore John Smith decided to use it.

## 5.3.1 Item Profile

You can use Replenishment Item Profiles to define Replenishment parameters for a set of items. You need to fill out filters for which items you want to apply the default values to. When you update the profile, the selected items will be updated with the values specified on the Default Values tab.

On the General tab you find the **Sort ID** and the **Description** fields. The **Sort ID** field is used when an update for more than one profile is applied. In the **Description** field you can enter a description of this profile.

On the Item Filters tab you can enter filters for the following fields:

- Item Division Code
- Item Category Code
- Product Group Code
- Item No.

If you enter FURNITURE in the **Item Category Code**, only items that belong to the Furniture Item Category will be selected when the default values from the profile are applied to the items.

In the **Replenish Where** field you can select one of these options:

- All Locations
- All Stores
- All Warehouses
- Location

If you select **All Locations**, the values on the Default Values tab are applied to all the stores and all the warehouses. The system deletes all existing Item Store Records belonging to the items selected and copies the values from the Default Values tab to the corresponding fields in the Merchandising tab of the items.

If you select **All Stores**, the values are applied to the stores only. By selecting **All Warehouses**, the values are applied to all the warehouses and if you select **Location**, you must also fill out the Location Code field and when you update the profile, the values are only applied to that location.

When one of the options **All Stores**, **All Warehouses** or **Location** is selected, the system creates entries in the Item Store Record table for the selected items. The **Active From Date** is set to *WORKDATE* and the values from the Default Value tab copied to the corresponding fields.

When you have filled in the item filters and the values you want to apply to the selected items, you should click on the Functions button and select the Update menu option. You will be asked if you want to update the values for the current profile only or for all profiles. If you select to do the update for all the profiles, the system processes the Replenishment Item Profiles in Sort ID order, so that the profile with the lowest Sort ID is processed first and the profile with the highest Sort ID last. This can be important because some items might be selected from two different profiles. If this is the case, only values from the profile with the higher Sort ID will be valid for these items after the update run.

Hint:

The Item Profile functionality fits better if the system is set to use Replenishment Grades. Replenism. Item Profile is at LS Retail – Replenishment, Setup, Replenishment, Replenishm. Item Profile:

## Example:

💷 1 - Replen. Item Profile	
General Item Filters Default Values	
ID [	Last Date Applied 07.06.07
Sort ID	_
Description Furniture - Avg. Usage	
Functions	▼ Item Profile ▼ Help

An Item Profile record with the ID 1 and the Sorting ID 100.

💷 1 - Replen. Item Profile	
General Item Filters Default Values	
Item Division Code	
Location Code	
L	Functions

An Item Profile for all items in the Item Category Furniture and for all stores/locations.

💷 1 - Replen. Item Profile			
General Item Filters De	efault Values		
Replenishment Calcula	Average Usage		
Manual Estimated Dail	0		
Reorder Point/Max Inv	0 40		
Store Stock Cover Req	8		
Wareh Stock Cover Re	40		
Replenishment Sales P	DEFAULT 🗈		
Store Forward Sales P	1W1W		
Wareh. Forward Sales	6W4W 🗈		
Purchase Order Delivery.	To Warehouse 💌		
Replenishment Grade	E 🍙		
Purchase Order Multiple .	0		
Transfer Multiple	0		
		Functions	Item Profile 🔻 Help

The Default Values for this group of items will have the Replenishment Calculation Type *Average Usage*.

## 5.4 Replenishment Data Fields

The solution offers four Replenishment Calculation Types and this part of the document describes the Replenishment Data fields that are common to some or all the Replenishment Calculation Types.

On the **Replen. Data Profile Card** there are several fields that are used for one or more Replenishment Calculation Type.

🗊 DAIRYTEST - Replen. Data Profile Card	
General	<b>^</b>
Code       DAIRYTEST       Replenishment Calculation         Active From Date       Reorder Point       Reorder Point         Range in Location       Maximum Inventory       Maximum Inventory         Not Active for Repleni       Purch. Order Delivery       Purch. Order Delivery         Exclude from Autom       Vendor No.       Transfer Multiple         Effective Inv. Sales Or       Include       Purchase Order Multiple         Effective Inv. Purchas       Include       Manual Estimated Dai	a       Manual Estimate         ·       0         ·       0         ·       0         ·       0         ·       •         ·       •         ·       •         ·       •         ·       •         ·       •         ·       •         ·       0         ·       0         ·       0         ·       0         ·       0         ·       0         ·       0
Effective Inv. Transfe Include   Effective Inv. Transfe Include   Wareh Stock Cover Re Wareh Stock Cover R	a 3 = 3
	Data Profile 🔻 Help 👻

If you want some items to be excluded from being active for Replenishment, then check mark the **Not Available for Replenishment** checkbox that is visible on the Replen. Data Profile Card and some other cards.

## Calculation Type – Stock Levels

For this type the system orders/transfers Maximum Inventory if the inventory level gets below the Reorder Point.

The Replenishment Data is stored in the Item, Item Store or Data Profile Record. The screenshot below shows the **Replenishment Data** fields on the data source forms for a record with the Calculation Method *Stock Level*.

Replenishment Calcula	Stock Levels 💽
Reorder Point	0
Maximum Inventory	0
Purch. Order Delivery	To Warehouse 💌
Vendor No	44040 🖈
Transfer Multiple	0
Order Multiple	0

NOTE:

This is the only valid calculation type for warehouse locations (if data profile is used for warehouse locations then the calculation type must be stock levels in the data profile).

## Calculation Type – Like for Like

It is possible to use the Replenishment module to replenish what is sold at the store. If one piece is sold then one piece is ordered/transferred.

The Replenishment Data is stored in the Item, Item Store or Data Profile Record. The screenshot below shows the Replenishment Data fields on the data source forms for a record with the Calculation Method *Like for Like*.

Replenishment Calcula	Like for Like
Vendor No	44040 💼
Transfer Multiple	0
Order Multiple	0
Like4Like Replen. Method	
Like4Like Process Method	
Not Active for Replenis	
-	

## 5.4.1 Replenishment Calculation Type

The Replenishment Calculation Type can have one of the following values:

- Average Usage
- Manual Estimate
- Stock Levels
- Like-for-Like

## **Calculation Process for Stock Levels - STORES**

This method applies where the Journal calculates quantity for transfer orders or purchase orders where the stock level need is arrived from the stores and not the warehouse itself. If a Replen. Item Store Record exists of the type stock level for the warehouse, and the journal is creating a purchase order for the warehouse, the system would use the process described in Calculation Process for Stock Levels – WAREHOUSE.

## 5.4.2 Maximum Inventory

If the Maximum Inventory field is filled in the system orders the stock up to the Maximum Inventory if the stock on hand goes under the Reorder Point.

#### Examples:

#### A) Replenishment Calculation Type is Stock Levels

The **Maximum Inventory** field is 20 and the **Reorder Point** field is set to 10 and the actual inventory is 8 then the system will reorder 12. Since the Minimum is not fulfilled it hits the Maximum.

If the **Maximum Inventory** is 0 the system will order according to the **Reorder Point** and reorders 2.

#### B) Replenishment Calculation Type is Average Usage or Manual Estimate

The **Maximum Inventory** field is 20 and the **Reorder Point** field is set to 10 and the actual inventory is 8 and the system suggests 30 but then the system will reorder 12 as the inventory cannot be more than 20.

If the Maximum Inventory is 0 the system will order 22 (Suggested Qty - Inventory).

## 5.4.3 Replen. Data Profile

The Replen. Data Profile field contains the code of the Replen. Data Profile record to be used in the Replenishment process.

## 5.4.4 Vendor No.

The **Vendor No.** field contains the number of the vendor the item should be purchased from. If the Replenishment Data record found for the item has the **Vendor No**. field filled in, that vendor will be used. However, if the field is blank, the system first looks at the Stock Unit record and finally the Item record.

#### Example:

If the **Vendor No.** field in the Item Store record that was selected is blank, the system uses the Vendor No. from the Item record as a Stock Keeping record is not found for the Item No and Location Code.

## **Lowest Price Vendor**

To ensure that that the vendor with the lowest price is selected for some item the **Select Lowest Price Vendor** checkbox at **LS Retail – Replenishment**, **Retail Item Card**, **Ordering** tab is marked as true. Then when the replenishment journal is created the lowest price vendor is selected for each line. Then when purchase orders are created it checked again for the lowest price vendor.

- 40020 Skirt Linda Brofa	ssional Wear Petail Item Card		
Sotorder: No	Ssional Wear - Retail Item Card		
Item Description	Fillersi.		
No	40020 🖉	Unit Price	
Description	Skirt Linda Professional Wear	Unit Price Including VAT . 80,00	
Division Code	NONFOOD 主	Price Includes VAT	
Item Category Code		VAT Bus. Posting Gr. ( NATIONAL 🕥	
Product Group Code	WOMEN-S	Base Unit of Measure PCS	
General Invoicing Ord	ering POS Pricing Distribution Track	ing Merchandising Attributes 3rd P.POS	
Vendor No	1024.055	Rearder Beint	
Select Lowest Price Ve	1 Mark this box	Reorder Quantity	
Original Vendor No.			
Original Vendor Item No		Reordering Policy	
Reserve	Optional 💌	Reorder Cyde	
Def. Ordered by	Store	Safety Lead Time	
Def. Ordering Method	By hand	Safety Stock Quantity 0	
Peolenishment System	Purchase	Minimum Order Quantity . 0	
Replemannent system.		Maximum Order Quantity 0	
Purch. Unit of Measure .	PCS	Order Multiple 6	
		Bill of Materials	
		Shelf No	
		Tariff No	
		Country/Region of Ori	
	<u>I</u> tem ▼	Sales  Purchases  Functions	▼ Help
2. ln	Prices the lowest price vendor	will be selected Prices Line Discounts	
		Orders	
		Return Orders	

This is required for each item that you want to check for the Lowest Price Vendor.

## NOTE

The lowest vendor is not always the same for all quantities. One vendor can be lowest for 100 items and another one for 200 items.

## 5.4.5 Purch. Order Delivery

The **Purchase Order Delivery** field can have two values, *To Warehouse* or *To Store*. The value in this field determines whether the purchase orders are to be delivered to a warehouse or the stores. It is used by the process that adds items to a replenishment journal to select the items for the journal.

The field is used when the function Adding Items to a Purchase Replenishment Journal is executed.

The table shows which conditions need to be met if the item is to be selected:

Purchase Order Type filed of the Replen. Template	Purch. Order Delivery Field of the Replenishment Data
One Purchase Order per Vendor	To Warehouse
One Purchase Order per Vendor with Cross Docking	
Purchase Orders for Receiving Location	To Store

## 5.4.6 Reorder Point

If the LS Replenishment System has calculated a need to replenish an item, where the **Reorder Point** has been filled in and the suggested quantity is less than the **Reorder Point**, it increases the quantity up to the Reorder Point.

## Example:

The system suggests reordering 8 pieces and the field **Reorder Point** is 10, the System Suggested Quantity is changed to 10.

If the stock levels go below the Reorder Point, the system will suggest a quantity that will raise it to the Maximum Inventory if the Maximum Inventory is filled in otherwise the inventory is raised to Reorder Point.

#### Example:

If you enter 10 in the Reorder Point and 20 in the maximum inventory, the replenishment system will not suggest anything until the inventory drops below 10. If the inventory drops to 8, the system will suggest a quantity of 12 (Maximum Inventory – current inventory) to be ordered. If the value in the Maximum Inventory field is zero, the system will suggest a quantity of 2 to be ordered.

#### Stock Levels / Reorder point

It is possible to use the Replenishment module to suggest what to replenish based on Stock Levels.

Replenishment Calcula Stock Levels	
Reorder Point	0
Maximum Inventory	0
Purch. Order Delivery To Warehous	e 💌
Vendor No	040 💼
Transfer Multiple	0
Order Multiple	0

If the stock levels go below the Reorder Point, the system will suggest a quantity that will raise it to the Maximum Inventory if the Maximum Inventory is filled in otherwise the inventory is raised to Reorder Point.

#### Example:

If you enter 4 in the Reorder Point and 10 in the maximum inventory, the replenishment system will not suggest anything until the inventory drops below 4. If the inventory drops to 3, the system will suggest a quantity of 7 (Maximum Inventory – current inventory) to be ordered. If the value in the Maximum Inventory field is zero, the system will suggest a quantity of 3 to be ordered.

This method applies where the Journal calculates quantity for transfer orders or purchase orders where the stock level need is arrived from the stores and not the warehouse itself. If a Replenishment Data record exists of the type stock level for the warehouse, and the journal is creating a purchase order for the warehouse, the system would use the process described in

Stock Levels – Warehouse.

## 5.4.7 Transfer Multiple

**Transfer Multiple** is used by the process that creates transfer orders from the replenishment journals. If the **Transfer Multiple** field is filled in for an item, the quantity in the transfer order line for that item is always a multiple of the Transfer Multiple. The system always uses the round up command on the quantity in the replenishment journal line if the Transfer Multiple is filled in.

## 5.4.8 Purchase Order Multiple

**Purchase Order Multiple** is used by the process that creates the purchase orders from the replenishment journals. If the **Order Multiple** field is filled in for an item, the Quantity in the purchase order line for that item is always a multiple of the **Order Multiple**. The system always uses the round up command on the quantity in the replenishment journal line if the **Order Multiple** is filled in.

## 5.4.9 Not Active for Replenishment

If you want to temporarily exclude an item from Replenishment, you can place a check mark in this field. The replenishment process will not replenish this item.

## 5.4.10 Manual Estimated Daily Sale

The Manual Estimate method uses the **Manual Estimated Daily Sale** and the **Store Stock Cover Reqd** (Days) parameters to calculate the quantity needed. If the quantity on hand in the store does not cover the estimated daily sale for the period, the system makes a suggestion.

## 5.4.11 Store Stock Cover Days

The **Store Stock Cover Days** field tells the system how many days of sale the inventory at the store is supposed to cover.

The field is used for the **Replenishment Calculation Type Average Usage** and **Manual Estimate**.

	Replenishment Calculation Type	Replenish Grade Code	Not Active for Reple	Exclude from Auto	Range in Location	Will be Replenish	Manual Estimated Dail	Store Stock Cover Reqd (Days)	Wareh Stock Co Regd (Days)			
•	Manual Esti	] E					5	10				
	Automatic - From D Average Usage	Data Profile										
	Manual Estimate											
	Stock Levels Like for Like											
	Exclude from Reple	enishment										
	•			III III								

40000 - Replen. Item Store Rec	
Item No.       44         Variant Code       44         Active From Date       44         Range in Location Code       16         Not Active for Repleni       16         Automatic Replenishment       17         Replenish as Location       16         Effective Inv. Sales Or       16         Effective Inv. Purchas       16         Effective Inv. Transfe       16         Effective Inv. Transfe       16         Provide Structure Inv. Transfe       16	Replenishment Calcula       Manual Estimate         Reorder Point       Automatic - From Data Pi         Maximum Inventory       Manual Estimate         Purch. Order Delivery       Stock Levels         Vendor No
	Item Store 🔻 Help

The Manual Estimate and other settings can be set for instance at the LS Retail – Replenishment, Purchase Replenishment Journal, Line button, select Replenishment Information Setup, Replen. Item Store List card appears, Item Store button, select Card.

## Example:

The system calculates that the average daily sales quantity is 5 and the Store Stock Cover Days is 10. Then the System Suggested quantity will be 50.

## 5.4.12 Warehouse Stock Cover Days

The **Warehouse Stock Cover Days** works the same way as Store Stock Cover Days but this field tells the system how many days of sale the inventory at warehouse is suppose to cover.

## 5.4.13 Effective Inventory

The system calculates the inventory that is going to be used in the rest of the calculations. Effective Inventory :=

Inventory + Quantity on Purchase Order -Quantity on Sales Order + Quantity in Transfer In -Quantity in Transfer Out

## 5.4.14 Reorder Point

If the Effective Inventory is less than or equal to the Reorder Point, the system suggests ordering enough stock to get the inventory to the Maximum Inventory field value.

## Condition:

Effective Inventory <= Reorder Point

Result:

 Condition:

 Maximum Inventory > Reorder Point

 Result:

 System Suggested Quantity = Maximum Inventory – Effective Inventory

 Condition:

 Maximum Inventory <= Reorder Point</td>

 Result:

 System Suggested Quantity = Reorder Point – Effective Inventory

## 5.4.14.1 Cross Docking

If the Journal is to replenish the warehouse with cross docking to the stores, it is necessary to calculate how much should be cross docked to the stores.

The Cross Docking Quantity is calculated if either the field **Maximum Inventory** or the field **Reorder Point** is greater than zero.

Condition:

Effective Inventory < Reorder Point

Result:

<u>Condition:</u> Maximum Inventory > Reorder Point <u>Result:</u> Quantity to Cross Dock = Maximum Inventory – Effective Inventory <u>Condition:</u> Maximum Inventory <= Reorder Point <u>Result:</u> Quantity to Cross Dock = Reorder Point – Effective Inventory

## 5.4.14.2 Maximum Inventory

If the field **Maximum Inventory** is greater than zero and sum of **System Suggested Quantity** and **Effective Inventory** does not equal Maximum Inventory, the System Suggested Quantity equals Effective Inventory subtracted from the Maximum Inventory. The field **Decision** is set to *Brought to Maximum Inventory*.

Condition:

System Suggested Quantity + Effective Inventory > Maximum Inventory

Result:

System Suggested Quantity = Maximum Inventory – Effective Inventory.

## 5.4.14.3 Cross Dock

If the Journal is to replenish the warehouse with cross docking to the stores and Quantity to Cross Dock is higher than System Suggested Quantity, the Quantity to Cross Dock is set to *System Suggested Quantity*.

## Condition:

Purchase Order for warehouse with cross docking

Quantity to Cross Dock > System Suggested Quantity

Result:

Quantity to Cross Dock = System Suggested Quantity

## 5.4.15 Calculation Process for Stock Levels – WAREHOUSE

This process is only used where a Replenishment Journal is creating a Purchase Order for the warehouse and a Replen. Item Store Record exists for the warehouse and the Replenishment Calculation Type is *Stock Levels*.

#### 5.4.15.1 Effective Inventory

The system calculates the inventory of the warehouse that is going to be used in the rest of the calculations.

Effective Inventory :=

Inventory + Quantity on Purchase Order -Quantity on Sales Order + Quantity in Transfer In -Quantity in Transfer Out

## 5.4.16 Reorder Point

If the Effective Inventory is less or equal to the Reorder Point, the system will suggests ordering enough stock to get the inventory up to the Maximum Inventory field value.

NOTE:

Zero is NOT a valid number in the **Reorder Point** field.

Condition:

Effective Inventory <= Reorder Point

Result:

<u>Condition:</u> Maximum Inventory > Reorder Point <u>Result:</u> System Suggested Quantity = Maximum Inventory – Effective Inventory <u>Condition:</u> Maximum Inventory <= Reorder Point Result:

System Suggested Quantity = Reorder Point – Effective Inventory

## 5.4.16.1 Reorder Point

If the field **Reorder Point** is greater than zero and **System Suggested Quantity** is less than the Reorder Point, the **System Suggested Quantity** is set to *Reorder Point* and **Decision** is set to *Brought up to Reorder Point*.

Condition:

System Suggested Quantity < Reorder Point

Result:

System Suggested Quantity = Reorder Point

## 5.5 Replenishment Item Quantity

The Replenishment Item Quantity table contains data used by the replenishment module. The table displays the Inventory for each item and variant at each location, in addition to what is expected to be received at the location:

- Quantity on Purchase Order
- Quantity in Transfer In

and what is to be shipped out from the location:

- Quantity on Sales Order
- Quantity in Transfer Out

It also contains information about average daily sales and the number of days out of stock if the *Stock Out* functionality is in use.

The Replenishment Item Quantity table supplies the input to the function to Add Items to the Purchase and Transfer Replenishment Journals. The Replenishment Item Quantity records can be calculated as a pre-process to adding lines to the journals but would most likely calculated as an automatic Scheduler job during overnight processes.

The Replenishment Item Quantity calculation process only creates records for valid items and valid locations for the replenishment process.

In **Appendix A** the fields for the Replenishment Item Quantity are listed. The calculation of the Replenishment Item Quantity table can be run overnight by the Scheduler and viewed at **LS Retail – Scheduler, Scheduler Job**:

		Scheduler Job			
General Object Setup	Schedule Details				
loh ID	REPLEN-OTY		Job Type	Da	ta Replication 💌
Description	Replenishment - Calc. Iter	m Otv	Distribution Rest	rictions . No	
Scheduler Joh Type Code			Include/Exclude	List E	
Subjobs Defined by Job	REPLEN-OTY		, Distribution Subl	ocations Ex	duded from
Jus Connection			Error Handling.	Ski	n To Next
Use Current Location			To Location Cod		
From-Location Descrip			To-Location Des		<u>m</u>
rion cocaton Description			To cocation bes		
Data Replication Object	Replication				
Cubich TD Cubich I	Description		Eashlad	Subjeb Ture	Cubich To
	Description		Enabled	Normal	subjob ra
**				Normai	
	Run Now	ctions 🔻	Line 💌	Job	Help
	Run Now	ctions 🔻	Line 🔻	Job 🔻	) Help
	Run Now Ac	ctions 🔻	Line 🔻	<u>]</u> ob 🔻	) Help
	Run Now Ac	ctions	Line 🔻	<u>l</u> ob 🗸	) Help
REPLEN-QTY Replenis	Run Now Ac	ctions	Line V	<u>]</u> ob 🔻	Help
) REPLEN-QTY Replenis General Object Setup	Run Now Ac	ctions 💌	<u>Line</u>	<u>J</u> ob ▼	Help
) REPLEN-QTY Replenisl General Object Setup Object Type	Run Now Ac	ctions 🔹	<u>Line</u> ▼	<u>Job</u> 🗸	Hep
) REPLEN-QTY Replenist General Object Setup Object Type Object No	Bun Now Arr nment - Calc. Item Qty - Schedule Details Codeunt C 10012200 (C)	ctions 🔹	<u>Line</u> ▼ Text Code	<u>]</u> ob ▼	
REPLEN-QTY Replenisl General Object Setup Object Type Object No Object Name	Run Now Ac nment - Calc. Item Qty - Schedule Details Codeunt © 10012200 () Replen, - Calc. Qtys	ctions 🔹	Line ▼	<u>2</u> 0b ▼	) Help

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											-
	H										
	4										_
				Run Now	Actions	•	Line	-	Job 🔻	Help	
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## 5.6 Replenishment Template

In order to use the replenishment system, you need to set up one or more replenishment templates. The template card is found under: **LS Retail – Replenishment, Setup, Replenishment, Replenishment Template** and a new template is defined by selecting F3 and filling in the fields needed.

Time . . . . . . . . . .

Enabled

Boolean. . . . . . . . . 🔲

Subjob Type Subjob Ta...

In the replenishment template you to specify whether you want to use it to create purchase orders or transfer orders from a warehouse to the stores. The replenishment system can have many replenishment templates of both types.

In the **Replenishment Type** field, you can select whether the replenishment template is to be used for creating purchase orders or transfer orders. In the **Purchase Order Type** field, you can select one of these options:

Use Job ID . . . . . . REPLEN-QTY

Data Replication Object Replication
Subjob ID Subjob Description

Last Batch ID . . . . . .

III RT00003 - Replen. Template	- • ×
General Filters	
Code Purchase	
Description Purchase Orders to SUPERMARK	
Purchase Order Type Purchase Orders for Receiving Loca 💌 Location is a Warehouse.	
Create Orders Automa Do Not Create Orders Automatically	
Buyer ID SUPER 🕥	
Buyer Group Code	
Template 💌	Help

- One Purchase Order per Vendor (replenish warehouse)
- One Purchase Order per Vendor with Cross Docking (replenish warehouse and store)
- Purchase Orders for Receiving Locations (replenish store)

## Purchase Journal - One Purchase Order per Vendor

By selecting *One Purchase Order per Vendor*, the system will create one purchase order for the lines in the linked replenishment journals.

## Purchase Journal - One Purchase Order per Vendor with Cross Docking

If you select One Purchase Order per Vendor with Cross Docking, the system will also create one purchase per vendor like when the previous option was selected, but it will also create planned cross docking transfer orders, so that when the purchase order arrives at the warehouse, some of the items can be cross docked and sent directly to the stores that are waiting for them.

## **Purchase Journal - Purchase Orders for Receiving Locations**

If you select *Purchase Orders for Receiving Locations*, the system will create purchase orders for the stores instead of the warehouse. For example if there is no warehose.

#### Transfer Journal

If you enter *Transfer* in the **Replenishment Type** field, the Purchase Order Type will not be visible.

The **Location Code** field must always be filled in unless *Purchase Orders for Receiving Locations* was selected as the Purchase Order Type.



## Do Not Create Order Automatically

The system leaves the journal lines after the Replenishment Journal has been populated / calculated and the buyer can then modify and manually create the Order.

## **Create Orders Automatically**

The system automatically creates the order once the journal has been populated. This might be done when populating / calculating the journal by a Scheduler Job over night.

## Put Creation of Orders on Batch Posting Queue
Acts the same as *Create Order Automatically* but the system creates a request in the *Batch Posting Queue* which will then create the order when it has reached the record in the queue. This would most likely be used if there are locking problems with the *Create Orders Automatically* method.

🗰 RT00001 - Replen. Template		
General Filters		
Vendor No. Filter	٦	ABC Amount Filter
Item Division Code		ABC Profit Filter
Item Category Filter		Item Hierarchy Filter
Item Product Group Filter		Item Hierarchy Level F
Item No. Filter		Item Hierarchy Value F
Store Group Filter		Special Group Code Filter
Season Filter		Item Attribute Code Fil
Replenishm. Calc. Typ		Item Attribute Value Fi
		<u>_</u> emplate ▼ Help

- In the Replen. Template form you can set the filters you want to apply to the Item table when you add items to the Replenishment Journals.
- In the **Vendor No. Filter** you can enter a filter for the **Vendor No.** field of the items. An example is 1000 if you only want to select items from vendor number 1000. If you enter 1000..2000 the system will select all items from vendors number 1000 to 2000.
- In the Item Category Filter field you can enter a filter for the Category Code field of the item.
- In the Item **Product Group Filter** field you can enter a filter for the **Product Group Code** field of the item.
- In the Item No. Filter you can enter a filter for the item number of the item.
- In the **Replenism. Calc. Type Filter** you can enter a filter for the **Replenishment Calculation Type**. If you press the **UpArrow** or **F6** key, this form will open:

Please select which filters you want to apply to the template
✓ Average Usage
Manual Estimate
Stock Levels
✓ Like for Like
OK Cancel Help

Here you can place a check mark in one or more fields you want to filter on. If you want to select items with the Replenishment Calculation Type = **Average Use** and **Manual Estimate**, you need to check mark the boxes next to these options.

## 5.7 Replenishment Batch

In the *Replenishment Journal Batch* form you can specify whether the replenishment is to be run automatically or manually. The default run frequency is set to be run manually, but it is possible to specify a certain date if it is to be run only once or you can specify that the replenishment run is to be run daily or on weekdays only.

- To run the replenishment automatically, you can either select *Replenishment Automatic Run* at the LS Retail – Replenishment, Periodic Activities, Replenishm. Automatic Run or create a Scheduler Job in the LS Retail – Scheduler menu.
- The *Replenishment Batch* record is always connected to a Replenishment Template. One Replenishment Template can have multiple Replenishment Batch records.
- To access the Replen. Worksheet Batch card the following path is used: LS Retail Replenishment, Setup, Replenishment, Replenishment Template, Template button, select Worksheet Batches for the Replen. Worksheet Batches, then the Batch button, select Card and the Replen. Worksheet Batch card will be displayed.

🖮 🛅 Setup	RT00001 - Replen. Template	
🛓 🛅 Allocation	· · ·	
E- Eplenishment	General Filters	
- 🛲 Replenishment Setup	Codo DT00001	
- 🛲 Replenishment Grade 🖉		Repienisinient rype Purchase
🔤 Replenishment Template 🖊	Description Replenish Warehouse W0001	Location Code W0001 (1)
- I Replenishment Groups	Purchase Order Type One Purchase Order per Vendor	Location is a Warehouse.
	Create Orders Automa Do Not Create Orders Automatically	
	Buver ID SUPER	
- 🛅 Replen. Data Profile Card	Buyer Group Code MEN-WOMEN	
- 📾 Replen. Multiple Rounding		
		Template
		List F5
		Workshort Patcher
莭 🦳 Item Import		worksheet batches

Replenish.	Description	Batch No.	Description	Buyer ID	Buyer Gro	No. of Lines	Run Fre	. Next Run La	
RT00	Replenish Warehous	. DEFAULT	Default Replenishment Batch	SUPER		26	Daily	10.07.10	
-									
-									
				_				<b>.</b>	
								•	
						E	atch 🔹	Help	
Í		Poplon W	arkshaat Batch				Card	$\geq$	Shift
	General Run Fragu	- Replen. W	orksheet Batch			8	Card Repleni	> ishment Journal	Shift Ctrl
	General Run Frequ	ency	orksheet Batch				Card Repleni	shment Journal	Shift Ctrl
	General Run Freque Replenishment Temp	- Replen. We ency a RT0000	orksheet Batch	use W0001			Card Repleni	shment Journal	Shift Ctrl
	General Run Frequ Replenishment Temp Batch No	- Replen. We ency a RT0000	orksheet Batch	use W0001			Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description	- Replen. We ency a RT0000	orksheet Batch	use W0001			Card Repleni	Sishment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID	- Replen. We ency a RT0000 DEFAUL Default SUPER	orksheet Batch	use W0001		2	Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code.	- Replen. We ency a RT0000 DEFAUL Default	orksheet Batch	use W0001			Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Templ     Batch No     Description     Buyer ID     Buyer Group Code.     Create Calc. Log Line	- Replen. Wi ency a RT0000 DEFAUL Default SUPER 	orksheet Batch	use W0001			Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code     Create Calc. Log Line	- Replen. Wi ency a RT0000 DEFAUL . DEFAUL . SUPER 	orksheet Batch	use W0001			Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code     Create Calc. Log Line	- Replen. We ency a RT0000 DEFAUL Default SUPER 	orksheet Batch	use W0001		2	Card Repleni	shment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code     Create Calc. Log Line	- Replen. Wi ency a RT0000 DEFAUL Default SUPER 	orksheet Batch	use W0001		2	Card Repleni	ishment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code     Create Calc. Log Line	- Replen. Wi ency a RT0000 DEFAUL Default SUPER 	orksheet Batch	use W0001			Card Repleni	ishment Journal	Shift Ctrl
	RT00001 DEFAULT     General Run Frequ     Replenishment Temp     Batch No     Description     Buyer ID     Buyer Group Code.     Create Calc. Log Line	- Replen. Wi ency a RT0000 DEFAUL Default SUPER 	orksheet Batch	use W0001			Card Repleni	ishment Journal	Shift Ctrl

It is important to specify the **Buyer ID** and/or **Buyer Group Code** if the buyer wants the orders to be linked to his/her ID or Group and viewable by the Buyer's Workbench.

#### Put the Replen. Log switch to the Replen Journal Batch record

The field **Create Calc. Log Lines** is used to be able to turn on the logging for a specific Batch execution. See **LS Retail – Replenishment, Setup, Replenishment, Replenishment Template, Template** button, **Worksheet Batches, Batch** button, **Card.** 

_	
	RT00001 DEFAULT - Replen. Worksheet Batch
Γ	General Run Frequency
	Replenishment Templa Replenish Warehouse W0001
	Batch No DEFAULT
	Description Default Replenishment Batch
	Buyer ID SUPER (1)
	Buyer Group Code
	Create Calc. Log Lines

When turned on every decision in the calculation process for all items down to variant and location is logged. This feature should only be used for inspection because it will slow down the calculation process.

### Scheduler Executes Batch Jobs automatically

Batch Jobs can be executed by a Scheduler Job. In the Demo Data there is an example of a Scheduler Job (REPLEN-RUN) that can be used to execute Batch Jobs.

General   Object Setup	Schedule Details	
Job ID	REPLEN-RUN	Job Type Data Replication 💌
Description	Replenishment - Automatic Run	Distribution Restrictions . No
Scheduler Job Type Code	MISC	Include/Exclude List E
Subjobs Defined by Job .	REPLEN-RUN	Distribution Sublocations. Excluded from
Use Current Location		Error Handling Skip To Next 💽
From-Location Code	1	To-Location Code
From-Location Descrip		To-Location Description .
Data Replication Object	Replication	
Transfer No. Descrip	tion	Status Transfer Transfer
*		Not Ready
-		
		-
) REPLEN-RUN Replenis	hment - Automatic Run - Scheduler J	lob 👘 🖬
) REPLEN-RUN Replenis General Object Setup	hment - Automatic Run - Scheduler J Schedule Details	lob
REPLEN-RUN Replenis General Object Setup Object Type	hment - Automatic Run - Scheduler J Schedule Details	Text
) REPLEN-RUN Replenisi General Object Setup Object Type Object No	hment - Automatic Run - Scheduler J Schedule Details Report 10012207	lob
) REPLEN-RUN Replenisi General Object Setup Object Type Object No Object Name	hment - Automatic Run - Scheduler J Schedule Details Report 10012207 R Replen. Automatic Run	Iob         Image: Code
) REPLEN-RUN Replenisi General Object Setup Object Type Object No Object Name Uses Scheduler Job Re	hment - Automatic Run - Scheduler J Schedule Details Report () 10012207 () Replen. Automatic Run	Iob         Image: Code         I
REPLEN-RUN Replenisi         General       Object Setup         Object Type          Object No.          Object Name          Uses Scheduler Job Re       Use Job ID	hment - Automatic Run - Scheduler J Schedule Details Report  Contemport 10012207 Replen. Automatic Run Contemport REPLEN-RUN	Iob         Image: Code
REPLEN-RUN Replenisl         General       Object Setup         Object Type          Object No.          Object Name          Uses Scheduler Job Re       Use Job ID         Last Batch ID	hment - Automatic Run - Scheduler J Schedule Details Report 10012207 Replen. Automatic Run REPLEN-RUN	Iob         Image: Code         I
REPLEN-RUN Replenisi         General       Object Setup         Object Type          Object No.          Object Name          Object Name          Uses Scheduler Job Re       Use Job ID         Last Batch ID	hment - Automatic Run - Scheduler J Schedule Details Report  Replen. Automatic Run REPLEN-RUN	Iob         Image: Code         I
REPLEN-RUN Replenisi         General       Object Setup         Object Type          Object Name          Uses Scheduler Job Re       Uses Scheduler Job Re         Use Job ID          Last Batch ID          Data Replication       Object	hment - Automatic Run - Scheduler J Schedule Details Report Replen. Automatic Run REPLEN-RUN Replication	Iob     Image: Code     Image: Code<
REPLEN-RUN Replenisi         General       Object Setup         Object Type          Object No.          Object Name          Uses Scheduler Job Re       Uses Scheduler Job Re         Use Job ID          Last Batch ID          Data Replication       Object         Transfer No. Description	hment - Automatic Run - Scheduler J Schedule Details Report   Replen. Automatic Run  REPLEN-RUN  Replication tion	Iob         Image:
REPLEN-RUN Replenisl         General       Object Setup         Object Type          Object No.          Object Name          Uses Scheduler Job Re       Use Job ID         Use Job ID          Last Batch ID          Data Replication       Object         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details Report   IO012207  Replen. Automatic Run  REPLEN-RUN  Replication tion	Iob     Image: Code       Code     Image: Code       Integer     0       Decimal     0,00       Date     0       Time     0       Boolean     Image: Code       Status     Transfer       Not Ready     Image: Code
REPLEN-RUN Replenisl         General       Object Setup         Object Type          Object No.          Object No.          Object No.          Object No.          Object No.          Uses Scheduler Job Re       Use Job ID         Use Job ID          Last Batch ID          Data Replication       Objectr         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details Report 10012207 Replen. Automatic Run REPLEN-RUN Replication tion	Iob     Image: Ima
REPLEN-RUN Replenisl         General       Object Setup         Object Type          Object No.          Object No.          Object No.          Uses Scheduler Job Re       Use Job ID         Last Batch ID          Data Replication       Object         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details Report 10012207 Replen. Automatic Run REPLEN-RUN Replication tion	Iob     Image: Code       Code     Image: Code       Integer     0       Decimal     0,00       Date     0,00       Date     0       Boolean     0       Status     Transfer       Not Ready     Image: Code
REPLEN-RUN Replenist         General       Object Setup         Object Type          Object No.          Object No.          Object Name          Uses Scheduler Job Re       Uses Scheduler Job Re         Use Job ID          Last Batch ID          Data Replication       Object         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details Report    IO012207   Replen. Automatic Run  Replication  tion	Iob     Image: Code code code code code code code code c
REPLEN-RUN Replenist         General       Object Setup         Object Type          Object No.          Object Name          Uses Scheduler Job Re       Uses Scheduler Job Re         Use Job ID          Last Batch ID          Data Replication       Object         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details 10012207  Replen. Automatic Run  Replen. Automatic Run  Replen-RuN  Replication tion	lob
J REPLEN-RUN Replenist         General       Object Setup         Object Type          Object No.          Object No.          Object No.          Uses Scheduler Job Re       Uses Scheduler Job Re         Uses Scheduler Job Re          Last Batch ID          Data Replication       Object         Transfer No. Descrip          Image: A set of the	hment - Automatic Run - Scheduler J Schedule Details Report 10012207 Replen. Automatic Run REPLEN-RUN Replication tion	Iob
REPLEN-RUN Replenist         General       Object Setup         Object Type          Object Name          Uses Scheduler Job Re       Uses Scheduler Job Re         Use Job ID          Last Batch ID          Data Replication       Object         Transfer No. Descrip	hment - Automatic Run - Scheduler J Schedule Details Report   Replen. Automatic Run   Replen-RuN  Replication  tion	lob

# 5.8 Calculation Type – Average Usage

The Average Usage Calculation Type is the only type that uses sales history, the average sales per day, to predict the future sales of the item.

The Average Usage method calculates the average daily sales for an item in each location based on the period defined in a Sales Profile. The sales history can be adjusted and the predicted sales data can be overwritten by definition. Days with stock on hand are only valid for daily sales calculation.

## **Replenishment Sales Profile**

🔲 Replen.	Sales Profi	les			x
Code	Des	cription		Default Pr	
► DAIR	Y Dair	y and Fruit/	/eg.		*
DEFA	ULT Def	ault Sales Pro	ofile	~	
LAST	2M Las	t Two Months	s		
LAST	3MTHS Las	t 3 months			
LAST	5MTHS Las	t 6 Months			
					Ŧ
			Sales Profile	Help	

The Replenishment Sales Profile is used when Average Daily Sales is calculated and the *Replenishment Calculation Type* is *Average Usage*. It is located at **LS Retail – Replenishment, Setup, Replenishment, Replenishment Sales Profiles**. The system calculates the average daily sales by finding out the quantity sold for an item at each location (store) during one or more periods. The periods have a starting date and an ending date. The importance or weight of each period can differ. You can decide what weight you assign to each period by filling out the **Weight** field. If you want the period closest to today's period to have more importance than a period one month ago, you can enter a higher value in the Weight field for the more recent period. If no weight is entered, all periods have the same importance. The Replen. Sales Profile Card is at LS Retail – Replenishment, Setup, Replenishment Sales Profiles, Sales Profile button, Card.

Gene Code Desc Defa	IRY - Reple eral ription ult Profile.	en. Sales Prof	ile Card NRY iry and Fruit	t/Veg.			
D F S	ate ormula for tart Date 2W	Date Formula for End Date -1D	Weight 100,00	Weight Percent 100,00	Effective Start Date 10.05.11	Effective End Date 23.05.11	*
					Sal	es Profile 🔻	- Help

#### Hint:

The form shows the Effective Start Date and the Effective End Date according to the Date Formulas and working date of the NAV client.

#### Hint:

It is not necessary to define the Replenishment Sales Profile of an item with the Replenishment Calculation Type *Average Usage*. In such cases, the system uses the Replenishment Sales Profile that is marked as the Default Profile.

When you open the Replenishment Sales Profile from the Setup menu, the Replenishment Sales Profile list is displayed. Click on the **Sales Profile** button and select **Card Shift+F5** menu option to open the Replenishment Sales Profile card.

The card form has a subform where you can enter one or more lines. Each line has the following fields:

- Date Formula for Start Date
- Date Formula for End Date
- Weight
- Weight Percentage
- Effective Start Date
- Effective End Date

In the **Date Formula for Start Date** field you must fill out a Date Formula that will represent the starting date for the period for which you want the system to calculate the quantity sold. In the **Date Formula for End Date** field you must fill out the Date Formula for the end date of the period. In the **Weight** field you can fill out the weight or importance of this period.

The **Weight Percentage** field is calculated automatically. If the weight has been filled in in at least one line, the total sum of the Weight Percentage in all the lines will be 100.

The **Effective Start Date** and the **Effective End Date** are calculated automatically based on the Date Formula for Start Date and Date Formula for Ending Date and today's date.

#### **Replenishment Sales History Adjustment**

Replenishment Sales History Adjustment records are used to increase or decrease the Sales History quantity of a specific Item No. + Variant Code and Store / Location.

The Replenishment Sales History Adjustment is located at the LS Retail – Replenishment, Retail Item Card, Item button, Replenishment, Sales History Adjustment.

1	Distance		
a 40020 Skirt Liz Professional	Picture		
Sortorder: . No.	Variant Framework	Shift+Ctrl+V	
Item Description	Collection		
No	Special Order Cancelation		64,00
Description Ski	Units of Measure		80,00
Division Code NC	Variants		
Item Category Code CL	Attributer		DNAL 💽
Product Group Code WO	Special Groups		
Ceneral Tauristan Dadasia	Special Groups		but n non
General Invoicing Ordening	Events		prd P.POS
Barcode No 02	Item Status		585.456
Barcode Mask 02	Item In Hierarchy		7
Common Item No	Retail BOM Components	Shift+Ctrl+C	585.449
Special Group Code LIZ	Assembly List	+	2.000
Variant Framework Code. W	D		0
Blocked	Price History		322.708
Item Family Code	Barcodes	•	2.589.334,64
Print Variants Shelf La	Find Barcode	Shift+Ctrl+F	0
Date Created	Set Priority to 3rd P.POS - Transmission		0,00
Created by User	Actions	•	
Last Date Modified	Store Information	•	
Last Modified by User SU			
	POS	•	
	Item Linking	+	
	Text and Printing Setup	•	
	Replenishment		Replenishment Item Store
	Item	Functions -	Location Quantities
			Out of Stock Days
			Sales History Adjustment
			Planned Sales Demand
			Planned Stock Demand
			Replenish from Warehouse
			Unavailable Stock
			Multiple Rounding
			Information Check

The system calculates the sales quantity for a specific period and calculates Sales History Adjustment Quantity and the sum of the two quantities is the adjusted total quantity.

The Replenishment Sales History Adjustment applies only to items that have the Replenishment Calculation Type *Average Usage*.

Total Sales Quantity = Total Sales Quantity + Total Sales History Adjusted Quantity.

The purpose of this feature is to be able to respond on a certain day to different demands than on the average. An example would for instance be if there is an increased demand for kids' balloons before the national day, then the Adjusted Qty could be + 200 for a certain store on a certain day. Another example would be if vacation is likely to cause less traffic in the stores, then the Adjusted Qty would be a minus number, for instance - 50 on a certain day when the store would normally get 100 items, thus adjusting the number expected to be sold because of certain conditions on this particular date.

The Buyer maintains the Sales History Adjustment record under the Retail Item Card. Click on the Item Button, select Replenishment and finally Sales History Adjustment.

Hint:

It is essential to enter a negative value if you want to lower the sales history figure and a positive value if you want to increase it.

## 5.9 Scenario 5 – Too many skirts

Autumn seemed to be coming a bit early in Copenhagen on the year in question according to the long term weather forecast. So Jenny Sörensen, the manager of CRONUS in Copenhagen North, decides not to order as many Liz Skirts (item 40020) as originally planned for the time being – since she has enough in stock, both in the shop and the warehouse. In NAV she goes to the LS Retail – Replenishment, Retail Item Card, Item button, Replenishment, Sales History Adjustment and selects the Item button and Replenishment option there. In the window she enters - 50 in the Adjusted Qty field for variant 008 and -70 of variant 009 of item 40020 on August 6th.

Item No.	Variant Code	Location Code	Date	Adjusted Qty	Division Code	Item Category	Pro Gro
40020	008	S0003	06.08.07	-50			
40020	009	S0004	06.08.07	-70			
_							
_							
_							
_							
_							
_							
_							
•							P.

This means that you are asking for 50 items less of variant 008 and 70 less of variant 009. Other variants are not changed. This is exactly what happens when the order arrives.

### 5.9.1 Out of Stock Days

LS Retail – Replenishment, Retail Item Card, Item button, Replenishment, Out of Stock Days:

	Item No.	Variant Code	Location Code	Date Out of Stock	Date In Stock	No. of Days Out	Unavailable Qty	
Þ	40020 🖈	001	S0001	01.08.07		0	0,00	
	40020	002	S0001	01.08.07		0	0,00	
	40020	004	S0001	06.08.07		0	0,00	
	40020	004	S0003	21.12.06	15.08.07	237	0,00	
	40020	004	S0003	22.12.06	15.08.07	236	0,00	
	40020	004	S0004	21.12.06	15.08.07	237	0,00	
	40020	004	S0004	22.12.06	15.08.07	236	0,00	
	40020	005	S0003	01.01.06	15.08.07	591	0,00	
	40020	005	S0003	02.01.06	15.08.07	590	0,00	
	40020	005	S0004	01.01.06	15.08.07	591	0,00	

This form shows when an item has gone out of stock in a location and if it has been purchased again, the form shows the date it came back in stock and how many days it was out of stock. If the location still does not have it in stock, then the Date in Stock and No. Of Days Out columns are empty. This can be checked at the Replen. Setup card (LS Retail – Replenishment, Setup, Replenishment, Replenishment Setup, Stock Out Functionality tab).

📰 Replen. Setup		
General Numbering Stock Out Functionality	Vendor Performance Effective Inventory	
Stock Out Functionality . Last Entry No. for Sto 271757		
	Replenis 🔻	Help

This form only has values if the **Stock out Functionality** field in the Replenishment Setup form is check marked and the Update out of Stock batch run has been run from the Periodic Activity or the Job Scheduler.

Hint:

If you want the system to recalculate the out of stock data, you need to set the field Last Entry No. for Stock Out in the Replenishment Setup to 0, delete all records in the table Replen. Out of Stock Log and run LS Retail - Replenishment menu, Periodic Activities, Replen. Upd Out of Stock.

The calculation of the Replenishment Stock Out Days can be run overnight by the Scheduler, view **LS Retail – Scheduler, Scheduler Job**, field **Job ID** REPLEN-STKOUT.

General Object	Setup	Schedule Deta	ails				
Job ID	pe Code by Job . ition ode	REPLEN-STKO Replen. Stod MISC REPLEN-STKO	k Out € DUT€	Jo Di: Di: Er To To	b Type stribution Res clude/Exclude stribution Sub ror Handling. InLocation Coo InLocation Des	Data trictions . No List E locations. Exclu Skip 1 de cription .	Replication 💌 V ded from V Fo Next V
Data Replication	Object	Replication					
Subjob ID	Subjob [	Description			Enabled	Subjob Type S	ubjob Ta
*					~	Normal	0 ^

REPLEN-STROUT Replen. Stock Out - Scheduler Job			
General Object Setup Schedule Details			
Object Type Codeunit	Text		
Object No	Code		
Object Name Replen. Out of Stock Mgt.	Integer		0
Uses Scheduler Job Re 🔽	Decimal		0,0
Use Job ID REPLEN-STKOUT 💽	Date		
Last Batch ID	Time		
	Boolean	🔳	
Data Replication Object Replication			
Data Replication Object Replication	Enabled	Subjob Type S	ubjob Ta
Data Replication Object Replication Subjob ID Subjob Description	Enabled 🗸	Subjob Type S Normal	ubjob Ta 0 4
Data Replication Object Replication Subjob ID Subjob Description	Enabled	Subjob Type S Normal	ubjob Ta 0 4
Data Replication Object Replication Subjob ID Subjob Description	Enabled V	Subjob Type Si Normal	ubjob Ta 0 4
Data Replication Object Replication Subjob ID Subjob Description	Enabled	Subjob Type S Normal	ubjob Ta 0  4
Data Replication Object Replication Subjob ID Subjob Description	Enabled	Subjob Type S Normal	ubjob Ta 0 4
Data Replication Object Replication  Subjob ID Subjob Description	Enabled	Subjob Type S Normal	ubjob Ta 0 4
Data Replication Object Replication  Subjob ID Subjob Description	Enabled	Subjob Type S Normal	ubjob Ta

#### **Planned Sales Demand**

When the LS Retail Replenishment System calculates Item Quantities, it needs to take into account any Planned Sales Demand data, if it exists. This is only valid for items that have the Replenishment Calculation Types *Average Usage* or *Manual Estimate*.

#### Hint:

Planned Sales Demand records give the Buyer the chance to increase the sales demand, for example before special events, as these events might not be seasonal and the Replenishment Forward Sales Profile takes them into effect (Facto).

If the **Store Stock Cover (Days)** is filled in for an item and the Replenishment Calculation Type is *Average Usage*, the system tries to find Planned Sales Demand records for a period starting today and ending by the number of days defined by the Store Stock Cover (Days). This means for example that if the Store Stock Cover (Days) is 10, the period the system looks for Planned Sales Demand records starts today and ends 10 days later.

If the system finds Planned Demand records during this period for the item and the store, it uses this information to update Average Daily Sales.

Replenishment Planned Sales Demand is used when calculating the average sales quantity when the data in the Replenishment Item Quantity table is calculated. This can be viewed on the **Merchandising** tab on the Retail Item Card.

### Example:

Tracking	Merchandising	Attributes	3rd P.POS	
Reple Reord	nishment Calcula ler Point	Manual Es	stimate 💌 0	
Maxin	num Inventory	•	0	
Purch	. Order Delivery .	. To Wareh	iouse 💌	
Vende	or No		44010 💼	
Trans	fer Multiple		0	
Order	Multiple		0	
Manu	al Estimated Daily		5	
Store	Stock Cover Req		10	
Ware	h Stock Cover Re		20	-

Setting Today as 15.08.07 and make sure that Item 40000 has the Store Stock Cover Days of 10.

The Manual Estimated Daily Sale is 5 per day.



Item No.	Variant Code	Location Code	Date	Planned Demand (Qty.)	
40000		S0003	15.08.07	20	
40000		S0003	16.08.07	20	
40000		S0003	17.08.07	20	
40000		S0003	18.08.07	20	
40000		S0003	19.08.07	20	
40000		S0003	20.08.07	20	
40000		S0003	21.08.07	20	
40000		S0003	22.08.07	20	
40000		S0003	23.08.07	20	
40000		S0003	24.08.07	20	

Item 40000 has 10 Replenishment Planned Sales Demand records with the quantity of 20 per day.

### Forward Sales Profile (Store / Warehouse)

The current calculation of Average Daily Sales uses the Sales Period defined for the item. The Forward Sales Profile (LS Retail – Replenishment, Setup, Replenishment, Replen. Forw. Sales Profile) can be used to forecast what the future demand may be when calculating how much stock is required. The forecast is simply based on previous sales. This feature attempts to forecast what the future sales of an item for a given period might be, based on a historical trend from the previous year and then uses this to suggest a forecast Average Daily Sale value based on this year's sales period.

Using today's date as a reference point, the objective of the Forward Sales Profile is to define a period of historic sales back from today's date, but for last year and a second period, forward from today's comparable date last year.

#### Example:

In the Forward Sales Profile form, enter the code 6W4W, the **Back Period Calc.** Formula is set to 6W (six weeks).

The Forward Period Calc. Formula is 4W (four weeks).

🗰 6W4W - Replen. Forw Sales Profile	
General	
Code	eeks forward
Back Period Calc. Formula. 6W	J
Prior Period Date Formula	
Use Replenishment Calendar .	
Location Code	
Item Category	
Item No	
Eorward .	🔻 Help

The first period defined is therefore 6 weeks prior to today's date.

The second period is going forward to a date 4 weeks in advance of this date.

The replenishment process calculates the Average Daily Sales for the first (back) and second (forward) periods.

A Factor is then calculated as follows:

Factor = Average Daily Sales Forward Period / Average Daily Sales Back Period.

The Average Daily Sales value calculated based on the standard Replenishment Profile period is multiplied by the resultant factor to return a new Average Daily Sales value.

Take an example like below that uses the '6W4W' profile (that is, 6 weeks pre and 4 weeks post the comparable date last year):

Weeks from Today's Date	Unit Sales Last Year	Unit Sales This Year
-6	20	30
-5	30	35
-4	30	35
-3	50	55
-2	50	36
-1	30	40
+1	60	
+2	100	

+3	50	
+4	70	

Average sales for the 6 previous weeks 20+30+30+50+50+30 / 6 = 35

Average sales for the 4 forward weeks 60+100+50+70/4 = 70

Calculated Forward Factor: 70 / 35 = 2.0

In the replenishment calculation the Average Daily Sale value that is calculated is then multiplied by this factor to get an updated Average Daily Sale figure.

For example: Normal Average Daily Sale = 0.76

If we choose to use the Forward Factor for the item, the Average Daily Sale value used becomes:

Calculated Average Daily Sale \* Calculated Forward Factor = New Average Daily Sale

0.76 \* 2.0 = 1.52.

This is the value taken forward in the calculation.

The input field: **Prior Period Date Formula** shows how far into the past the period is defined. The default is 1Y and if the field is not filled out, then the period is defined around the date one year ago. Otherwise it can be defined in same way as other fields, 2Y stands for two years, 1Y3M is a year and 3 months back in time and so on.

The settings for: **Restrict Data to** give options to define the sales history that is used to create the trend factor. If all checkboxes are marked then a single item, for instance a certain brand of television sets, is the basis for the trend factor. If the item checkbox (only) is not marked, then the Product group sales history is the basis for the trend calculations. If the location checkbox is not marked then the sales history for all stores is used, to name a few examples.

The Sales history is not affected by these marks. The trend factor is only used as basis for instance for future orders, so a trend factor that shows 20% increase of sales will show that 20% additional stocks will be needed according to the trend. The Sales history will however remain the same.

#### 5.9.2 Replenishment Calendar

Replen. Calen	dar			
Day	Weekday	Last Year'	Last Year'	Description
18.04.09	Saturday	29.03.08	Saturday	
19.04.09	Sunday	30.03.08	Sunday	
27.03.10	Saturday	04.04.09	Saturday	
28.03.10	Sunday	05.04.09	Sunday	
29.03.10	Monday	06.04.09	Monday	
30.03.10	Tuesday	07.04.09	Tuesday	
31.03.10	Wednesday	08.04.09	Wednesday	
01.04.10	Thursday	09.04.09	Thursday	
02.04.10	Friday	10.04.09	Friday	
03.04.10	Saturday	11.04.09	Saturday	
04.04.10	Sunday	12.04.09	Sunday	Easter Day
05.04.10	Monday	13.04.09	Monday	
06.04.10	Tuesday	14.04.09	Tuesday	
07.04.10	Wednesday	15.04.09	Wednesday	
08.04.10	Thursday	16.04.09	Thursday	
09.04.10	Friday	17.04.09	Friday	
10.04.10	Saturday	18.04.09	Saturday	
11.04.10	Sunday	19.04.09	Sunday	
16.04.11	Saturday	27.03.10	Saturday	
17.04.11	Sunday	28.03.10	Sunday	
18.04.11	Monday	29.03.10	Monday	
19.04.11	Tuesday	30.03.10	Tuesday	
20.04.11	Wednesday	31.03.10	Wednesday	
21.04.11	Thursday	01.04.10	Thursday	
22.04.11	Friday	02.04.10	Friday	
23.04.11	Saturday	03.04.10	Saturday	
24.04.11	Sunday	04.04.10	Sunday	Easter Day
25.04.11	Monday	05.04.10	Monday	
26.04.11	Tuesday	06.04.10	Tuesday	
				Calendar V Help

The Replenishment Calender is at LS Retail – Replenishment, Setup, Replenishment, Replenishment Calendar.

Here you can set up the projection of days between years. When the field **Use Replenishment Calendar** in the active Forward Sales Profile (**LS Retail – Replenishment**, **Setup, Replenishment, Replen. Forw. Sales Profile**) is check marked, the system applies the Back Period Calc. Formula from today's date and if the date is found in the Day column of the Replenishment Calendar, the date from Last Year's Day will be used to calculate the sold quantity that goes into the average daily sales.

🛅 6W4W - Replen. Forw Sales Profile
General
Code
Description 6 weeks back, 4 weeks forward
Back Period Calc. Formula 6W
Forward Period Calc. Formula . 4W
Prior Period Date Formula
Use Replenishment Calendar
Restrict Data to:
Location Code 🔽
Item Division
Item Category 🔽
Product Group
Item No
Eorward

#### Example:

The system needs to calculate the sales trend of item number 40020, which has been set to use the 6W4W Replen. Forw Sales Profile. The 6W4W Forward Sales Profile uses the Replenishment Calendar.

Today's date in this example is 15.08.2007.

The system applies the Back Period Calc. Formula, which is 6W, to 04.07.2007 to find the dates it needs to inspect to find the sales of last year. This gives as the result the

dates from 04.07.2007 to 15.08.2007. The first 4 days from 04.07.2007 to 30.03.2007 are represented in the Replenishment Calendar so they will be subedited with the dates in the Replenishment Calendar but for the rest of the dates will be subtract exactly one year from those dates and calculate the sale those days.

ch No	DEFAULT Default	Replenishment Bat	ch		batch Posting	Status , wai	ing					
	Purchas	e W0003	2 Warehouse	2 W0002 - NORTH	Replenishmen	it for a Wareh	ouse					
Item No.	Description	Quantity	Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calculation Type	Vendor No.	Vendor Name	Effective	Direct Unit Cost	Amount
20061	Broccoli	24	KG	24	0	KG		44020	AL-s Foods Ltd	,	150.00	3,600,00
35040	Red Wine - Carbernet S.		BOTTLE		10	BOTTLE		44020	AL-s Foods Ltd	29	5.00	0.00
40000	Swimsuit Liz Beach 2		PCS		18	PCS		44010	LIZ-s Fashion Ltd	1	52.00	0.00
60080	Dual Earphones	4.130	PCS	4.146	10	PCS		44040	Erik-s Electronics	-3.975	10,00	41.300,00
60100	Digital Camera	24	PCS	24	0	PCS		44040	Erik-s Electronics		550,00	13.200,00
60110	ACE Dishwasher	20	PCS	20	0	PCS		44040	Erik-s Electronics		0,00	0,00
60120	ACE Refrigerator		PCS		0	PCS		44040	Erik-s Electronics		0,00	0,00
60200	Casablanca (1943)	170	PCS	180	10	PCS		44040	Erik-s Electronics		15,00	2.550,00
60210	Rocky (2 Disc Collec.Ed)(1976)	170	PCS	180	10	PCS		44040	Erik-s Electronics		15,00	2.550,00
60220	Ocean's Eleven(Widescr)(2001)	170	PCS	180	10	PCS		44040	Erik-s Electronics		15,00	2.550,00
• 1988-S	SEOUL Guest Chair, red	28	PCS	28	c	PCS 🚹		20000	AR Day Property		97,50	2.730,00
								Line 🔻	Functions -	Posting -	·] Print	Help
								Calculat	ion Log Lines	c C	trl+F5	
								Retail Ite	em Card	Sh	ift+F5	

The Calculation Log Lines are not active unless the **Create Calc. Log Lines** has been marked on the Replen. Setup card (**LS Retail – Replenishment, Setup**, **Replenishment, Replenishment Setup**).

🖬 Replen. Setup	- • •
General Numbering Stock Out Functionality Vendor Performance Effective Inventory	
Store Items Ranged By . [tem Category/Grad ]	
Default Central Wareh W0001	
Default In-Transit Code . OWN LOG.	
Replen. Source Code REPLEN	
Calc. Qty. Sold not Po	
Create Retail Purch. O 📝	
Create Calc. Log Lines.	
Autom. Insert from Ite	
<u>R</u> eplenis v	Help

## NOTE:

If the Create Calc. Log Lines is marked and the Calculation Log Lines function is run on the Purchase Replenishment Journal, it is an expensive action and time consuming. It is normally not used unless you need to look up the reason for strange or unusual behavior that may be revealed by the vast information that is revealed in this activity. If you can limit this action to one or a few items, for instance the 40070 and 40020 (separately), then the time and effort is minimized.

The Replen. Calcuation Log Lines information is detailed and can show what is out of the ordinary and therefore used in exceptional cases.

Item No.	Variant Code Location	Message Text	Date Inse	Time Inse
40070 主	S0001	Checking Item=40070 Variant= Store=S0001	26.07.11	13:02:33
40070	S0001	Replen. Data - Replen. Source = DataProfile - Item No. = - Variant Code = - Replenishment Calculatio	26.07.11	13:02:33
40070	S0001	Replen. Data - Replenishment Grade Code = - Reorder Point = 4 - Maximum Inventory = 40 - Transfer	26.07.11	13:02:33
40070	S0001	Replen. Data - Not Active for Repleni Replen. Data - Replenishment Grade Code = - Reorder Point =	4 - Maximur	m Inventory
40070	S0001	Replen. Data - Manual Estimated Daily Sale = 8 - Store Stock Cover Reqd (Days) = 4 - Wareh Stock C	26.07.11	13:02:33
40070	S0001	Replen. Data - Store Forward Sales Profile = - Wareh. Forward Sales Profile = - Replenish as Locatio	26.07.11	13:02:33
40070	S0001	Data Profile - Code = CLOTHING - Active From Date = 01.01.07	26.07.11	13:02:33
40070	S0001	Location S0001 is within Store Group Filter	26.07.11	13:02:33
40070	S0001	Store Effective Inventory = 0 - Warehouse Effective Inventory = 45	26.07.11	13:02:33
40070	S0001	Wareh Stock Cover Reqd (Days) = 25	26.07.11	13:02:33
40070	S0001	Calc. Coverage Shortfall(25) = ROUND(((Average Daily Sales(8) * Required Coverage Days(25)) - Effe	26.07.11	13:02:33
40070	S0001	ROUND(System Suggested Quantity(200) := Average Daily Sales(8) * Calc. Coverage Shortfall(25), 1,	26.07.11	13:02:33
40070	S0001	Adjust Item quantity from 1.000 to 955. Warehouse Effective Inventory(45) is less than Quantity(1.00	26.07.11	13:02:33
40070	S0001	Adjust Record quantity from 200 to 191 - Quantity to Cross Dock adjusted from 0 to 0	26.07.11	13:02:33
40070	S0003	Checking Item=40070 Variant= Store=S0003	26.07.11	13:02:33
40070	S0003	Replen. Data - Replen. Source = DataProfile - Item No. = - Variant Code = - Replenishment Calculatio	26.07.11	13:02:33
40070	S0003	Replen. Data - Replenishment Grade Code = - Reorder Point = 4 - Maximum Inventory = 40 - Transfer	26.07.11	13:02:33
40070	S0003	Replen. Data - Not Active for Replenishment = No - Exclude from Autom. Replenishm = No - Range in L	26.07.11	13:02:33

40020	000 50003	Store Effective Inventory = 10 - Warehouse Effective Inventory = 116
40020	000 50003	Forward Factor: Pre-period=(04.07.06-15.08.06) Post-Period(16.08.06-13.09.06)
40020	000 50003	Calendar change = 04.07.06 -> 01.07.06 05.07.06 -> 02.07.06 06.07.06 -> 03.07.06 07.07.06 -> 04.07.06
40020	000 50003	Forward Factor: (PostTotalSale(16.632)/No.OfDays(29)) / (PreTotalSale(23.910)/No.OfDays(43)) = Factor(1
40020	000 50003	Wareh Stock Cover Read (Davs) = 10

In the above detailed screenshot from the Replenishment Calculation Log form for item 40200 you can see the following information from the previous example:

#### Line 1 - shows the forward sales period used

Forward Factor: Pre-period = (04.07.06-15.08.06) Post-Period (16.08.06-13.09.06)

#### Line 2 – shows where the dates where changed by the Replenishment Calendar

Calendar change = 04.07.06 -> 01.07.06

05.07.06 -> 02.07.06 06.07.06 -> 03.07.06 07.07.06 -> 04.07.06

#### Line 3 - shows how the result of the sales history and forward sales factor

Forward Factor:

(PostTotalSale(16.632)/No.OfDays(29)) / (PreTotalSale(23.910)/No.OfDays(43)) = Factor(1,03141954744083416)

PostDailySale(573,517241379310345) / PreDailySale(556,046511627906977) = Factor(1,03141954744083416)

As you can see, the sales for the period prior to the date 15.08.06 is 23.910 and the sale after the date 15.08.06 is 16.632 which gives the forward sales factor of 1,0314

#### 5.9.3 Calculation Process for Average Daily Sale

### **Effective Inventory**

The system calculates the inventory that is going to be used in the rest of the calculations. Effective Inventory =

Inventory + Quantity on Purchase Order - Quantity on Sales Order + Quantity in Transfer In -Quantity in Transfer Out

#### Average Daily Sale

The calculation method needs the Average Daily Sale and is the data taken from the Replenishment Item Quantity record at LS Retail – Replenishment, Retail Item Card, Item button, select Replenishment, Location Quantities, the Replen. Item Quantities card appears. On the card you have to select the Functions button and select the Recalculate Quantities for Item in the line for the Item in question.

	Þ	
Functions -	Help	
Recalcu	late Quantities	for Item

This calculation of the Average Daily Sale process is executed in the calculation of the Replenishment Item Quantity record. The calculation takes place if the Calculate Inventory is marked in the LS Retail – Replenishment, Purchase Replenishment Journal, Functions button, Add Items to Replenism. Jrnl.

	Purchase Rep	olenishment Journal					
I ransfer Replenishment Journal							
Retail Purchase Order	Template Code	RT00001 💼	Replenish Warehouse	W0001			
Retail Transfer Order	Batch No	DEFAULT 💼	Default Replenishmen	it Batch			
Buyer's Push			Purchase W	/0001 Warehou	e W0001 - SOUTH	Replenishment for a	Warehouse
Stock Demand Worksheet							
Buyer's Workbench							
Purchase Contracts							
Vendor Performance Card	Itom No.	Description	Quantity	Unit of	System V	Varehouse Orig. U	nit of
Recall	1tem Ivo.	1 Proceeli	Quantity	Measure	Suggested Qu E	necuve inve Measu	e Calci
Allocation Plans	4001	Towel Liz Beach		267 PCS	392	124 PCS	- A
🕀 🛄 Item Import	4003	Hat Liz Casual Wear		287 PCS	368	80 PCS	
Periodic Activities	4005	Suit Liz Professional Wear		348 PCS	400	51 PCS	=
Replenishment - Calc. Item Quanti	4007	Pants Davi-s Professional	Wear	354 PCS	400	45 PCS	
Replenishm. Upd Like-for-Like	4008	) Pants Boys Tim-n Tina We	ar	336 PCS	392	55 PCS	
Replenishm. Upd Out of Stock	4009	Coat Tim-n Tina Wear	:	348 PCS	400	51 PCS	
🛄 Replenishm. Automatic Run	4009	1 Sweater Tim-n Tina Wear	:	300 PCS	400	100 PCS	
Reports	4011	) Jacket Davi-s Professional	IW. 10.5	582 PCS	12.096	1.500 PCS	
🖻 🖓 🖉 Setup	4012	) Floral Blouse Tim-n Tina W	lear 4	400 PCS	400	0 PCS	
Allocation	4013	Velvet Jacket Tim-n Tina V	Vear 4	400 PCS	400	0 PCS	
Replenishment	4014	Pants Davi-s Professional	Wear	400 PCS	400	0 PCS	*
i Item Import			1		2		P.
i					<u> </u>		
			Line -	Functions	Posting -	Print	Help
							Ticp
	L						
		8	🕼 Add Items to Rep	plenishm. Jrnl.			
			Boolon, Itom Quan	tity Options			
			Replen. Item Quan	uty Options	_		
			Calculate Inventor	y	3.		
			Skip 0 Lines	🔽	••		
			Create Durchase O	ndere De Net	Consta Durchasa Or	dava Automaticallu	
			create Furchase o	Iders . Do Not	create Furchase On	ders Automatically	
۰ III ا							
LS Retail - BackOffice					ОК	Cancel	Help
LS Retail - POS							. rep

Here is a step-by-step example:

- 1. The system finds the Sales Profile for the Item Variant Location.
- 2. The calculation process below is applied to EVERY Sales Profile Line:

- Calculates the sum of the Quantity (CALCSUMS(Quantity)) from the Item Ledger Entries according to the Date Period
- Calculates the sum of the Correction Quantity (CALCSUMS("Corrected Quantity")) from the Sales History Adjustments according to the Date Period
- Corrects the Quantity with Correction Quantity. (Quantity = Quantity - Corrected Quantity)

Hint:

The Quantity field is a negative number.

Hint:

To lower the sale then Corrected Quantity value needs to be negative.

- 3. The field **Adjusted Sales** in Replenishment Item Quantity record: Adjusted Sales = Corrected Quantity
  - If the field **Stock Out Functionality** is set, the system calculates the number of Out of Stock Days for the Date Period
  - The system calculates the Average Daily Sales as follows: Average Daily Sale = -Quantity / (No of Days – No of Out of Stock Days)
- Field of Replenishment Item Quantity record: No. of Days Out of Stock = No of Out of Stock Days No. of Sales Dates = No of Days
  - Calculate the Average Daily Sale according to the Sales Profile Line Weight

Average Daily Sale = Average Daily Sales \* Weight / Total Weight - or -Average Daily Sale = Average Daily Sales \* 1 / No of Sales Profile Lines

- 5. The system has now found the Average Daily Sale for all the Sales Profile Lines.
- 6. If there are Planned Sales Demand records for the cover period: The system sums the quantity of the Planned Sales Demand records

Average Daily Sale = Average Daily Sale \* (No of Days – No of Planned Sales Demand Days) + Total Planned Sales Demand Quantity

Field of Replenishment Item Quantity record: Planned Sales Demand = Total Planned Sales Demand Quantity

> Field of Replenishment Item Quantity record: "Sales Date From" = the earliest date of the sales history period "Sales Date To" = the last date of the sales history period

7. After the above process is completed, you have the Average Daily Sale Quantity.

### Stock Cover Days

The Purchase and Transfer Replenishment Journals is where you can set whether you want to replenish to the store, which is the default setting, or the Warehouse.

The system uses the **Store Stock Cover Reqd. (Days)** field unless the Replenishment Journal is to replenish a warehouse, in which case it uses the **Warehouse Stock Cover** 

Reqd.(Days) field. If the Warehouse Stock Cover Reqd.(Days) field is empty, the Store Stock Cover Reqd.(Days) field is used.

This is set at LS Retail – Replenishment, Purchase Replenishment Journal/Transfer Replenishment Journal, Line button, select Replenishment Information Setup, Replen. Item Store List and check corresponding columns.

R	Replenis Calculat	Fund Shment L	tions 🔹 ine Deta Lines	P <u>o</u> sti iils	ng 🔻 [ Ctrl+F5	<u>Prin'</u>											
R	letail Ite	em Card			Shift+F5												
	Replenis	shment I	nformati	ion Setup													
Reple	en. Item S	tore List										_					
Iter	m No.	Variant Code	Location Code	Active From Date	Replenishment Calculation Type	Replenish Grade Code	Not Active for Reple	Exclude from Auto	Range in Location	Will be Replenish	Manual Estimated Dail	Store Stock Cover Regd (Days)	Wareh Stock Cover Regd (Days)	Reorder Point	Maximum Inventory	Transfe	r Mu
•	40000				Manual Estimate	E						11	2		0	0	^
• 	40000				Manual Estimate	E						10	2		0	0	^
	40000				Manual Estimate	E						10	2		0	0	^
	40000				Manual Estimate	E						10			0	0	*
	40000				Manual Estimate	E						10			0	0	*

Stock Cover Days = Store Stock Cover Reqd.(Days)

-or-

Stock Cover Days = Warehouse Stock Cover Reqd.(Days)

### **Coverage Shortfall**

The system calculates the shortfall of stock to ensure that there is enough stock for the number of sales days that need to be covered.

"Calc. Coverage Shortfall" :=

ROUND((("Average Daily Sale" \* "Stock Cover Days") -

"Effective Inventory") / "Average Daily Sale",1,'>');

### Forward Sales Profile

- The system uses the Store Forward Sales Profile field unless the Replenishment Journal is to replenish a warehouse in which case it uses the **Warehouse Forward Sales Profile** field.
- The Forward Sales Ratio is not calculated unless the corresponding field is filled out.
- The system calculates the pre and post date periods specified in the Forward Sales Profile according to the system date (WORKDATE).
- If the field **Use Replenishment Calendar** in the Forward Sales Profile is set, the system will substitute the dates if they are found in the Replenishment Calendar with the days not found in the calendar subtracted by one year (-1Y).
- The system sums up the quantity (CALCSUMS("Valued Quantity"))for the periods with filters specified in the *Forward Sales Profile* record (**Division**, **Item Category**, **Product Group** and/or **Location**).
- The Forward Sales Forecast Factor is found in the following way:

"Forward Sales Forecast Factor":=

Total Post Period Sale /

**Total Pre Period Sale** 

#### **Cross Docking**

- If the Journal is to replenish the warehouse with cross docking to the stores it is necessary to calculate how much should be cross docked to the stores.
- The regular Journal process calculates the Calc. Coverage Shortfall according to the **Warehouse Stock Cover Reqd.(Days)** field as the Journal replenishes the warehouse.
- This additional process calculates the Calc. Coverage Shortfall for the store using the field **Store Stock Cover Reqd.(Days)**.

Quantity to Cross Dock = ROUND(Average Daily Sales \*

Calc. Coverage Shortfall,1,'>')

## 5.10 Scenario 6 – Stock in Store and Warehouse

The CRONUS warehouse has 10 days as Stock Coverage but the store has 5. The system calculates how much the store needs for 10 days.

Average Daily Sale = 10

Store – Calc. Coverage Shortfall = 3

Warehouse – Calc. Coverage Shortfall = 8

Forward Sale Forecast Factor = 1,1

Quantity to Cross Dock = 10 \* 3 = 30

System Suggested Quantity = 10 \* 8 \* 1,1 = 88

The Quantity in the Purchase Order for the warehouse is 88 but when the Purchase Order is received into the warehouse, the staff cross docks (pick) the 30 to be delivered by a Transfer Order to the store.

#### Suggested Quantity

Now the system can suggest the quantity the warehouse or the store needs according to the following formula:

System Suggested Quantity =

ROUND(Average Daily Sale \* Calc. Coverage Shortfall \*

Forward Sales Forecast Factor,1,'>')

If the System Suggested Quantity is less than zero, the System Suggested Quantity is set to zero.

Condition:

System Suggested Quantity < 0

Result:

System Suggested Quantity = 0

If the Effective Inventory is greater or equal to the System Suggested Quantity, the System Suggested Quantity is set to Zero.

<u>Condition:</u> Effective Inventory > System Suggested Quantity <u>Result:</u> System Suggested Quantity = 0

Reorder Point

If the field **Reorder Point** is greater than zero and **System Suggested Quantity** is less than the Reorder Point, the System Suggested Quantity is set to Reorder Point and Decision is set to *Brought up to Reorder Point*.

Condition:

System Suggested Quantity < Reorder Point

Result:

System Suggested Quantity = Reorder Point

#### **Maximum Inventory**

If the field **Maximum Inventory** is greater than zero and sum of **System Suggested Quantity** and **Effective Inventory** is greater than Maximum Inventory, the System Suggested Quantity equals Effective Inventory subtracted from the Maximum Inventory. The field **Decision** is set to *Brought to Maximum Inventory*.

Condition:

System Suggested Quantity + Effective Inventory > Maximum Inventory

Result:

System Suggested Quantity = Maximum Inventory – Effective Inventory.

### Cross Dock

If the Journal is to replenish the warehouse with cross docking to the stores and the Quantity to Cross Dock is higher than System Suggested Quantity, the **Quantity to Cross Dock** is set to *System Suggested Quantity*.

Condition:

Purchase Order for warehouse with cross docking

Quantity to Cross Dock > System Suggested Quantity

Result:

Quantity to Cross Dock = System Suggested Quantity

## 5.11 Calculation Type – Manual Estimate

The Manual Estimate method is similar to the Average Usage method except the average daily sales in not calculated but specified. The specified average daily sale is used to predict the inventory need of the warehouse / store.

### 5.11.1 Fields

### Common fields for all Calculation Types

The Replenishment Data is stored in the Item, Item Store or Data Profile record. The screenshot below shows the Replenishment Data fields on the data source forms for records with the Calculation Method *Manual Estimate* as it is shown on the **Retail Item Card**, on the **Merchandising** tab.

See Replenishment Data Hierarchy section for further information about Replenishment Data.

Tracking Merchandising	Attributes	3rd P.POS	
Replenishment Calcula Reorder Point Maximum Inventory Purch. Order Delivery Vendor No Transfer Multiple	Manual Es	timate	
Manual Estimated Daily		5	
Store Stock Cover Req		10	
Wareh Stock Cover Re		20	
Not Active for Replenis	Locati	on Details Exist	:

### 5.11.2 Calculation Process for Manual Estimate

#### **Effective Inventory**

The system calculates the inventory that is going to be used in the rest of the calculations in the following way:

Effective Inventory:

Inventory + Quantity on Purchase Order -Quantity on Sales Order + Quantity in Transfer In -Quantity in Transfer Out

#### Average Daily Sale

The calculation method needs the Average Daily Sale and this data is taken from the Replenishment Item Quantity record

The calculation of the Average Daily Sales is executed in the calculation of the Replenishment Item Quantity record.

The Average Daily Sale is to the value of the field **Manual Estimated Daily Sales**.

If there are Planned Sales Demand records for the cover period:

• The system sums the quantity of the Planned Sales Demand records in the following way:

Average Daily Sale = Average Daily Sale \* (No of Days – No of Planned Sales Demand Days) + Total Planned Sales Demand Quantity

Field of Replenishment Item Quantity record: "Planned Sales Demand" = Total Planned Sales Demand Quantity

The field **Adjusted Sales** in Replenishment Item Quantity record: Adjusted Sales = Corrected Quantity

The result of the above process is the Average Daily Sale

#### **Stock Cover Days**

The system uses the **Store Stock Cover Reqd.(Days)** field unless the Replenishment Journal is to replenish a warehouse then it uses the **Warehouse Stock Cover Reqd.(Days)** field. If the **Warehouse Stock Cover Reqd.(Days)** field is empty, the **Store Stock Cover Reqd.(Days)** field is used.

Stock Cover Days = Store Stock Cover Reqd.(Days)

-or-

Stock Cover Days = Warehouse Stock Cover Reqd.(Days)

### **Coverage Shortfall**

The system calculates the shortfall of stock to be able to have enough stock for the number of days the sale needs to cover.

"Calc. Coverage Shortfall" :=

```
ROUND((("Average Daily Sale" * "Stock Cover Days") -
```

```
"Effective Inventory") / "Average Daily Sale",1,'>');
```

This is shown in a field that displays additional supplies are needed. For instance in the Replenishment Journals detail lines: LS Retail – Replenishment, Purchase/Transfer Replenishment Journal, Line button, select Replenishment Line Details.

#### Example:

If 2 pieces of item 40020 are the Average Daily Sale in a store and the store wants to have 10 days' supply available (defined in Stock Cover Reqd (Days)).



Then normally 20 pieces (2 \* 10) of this item should be available in the store. If only 10 pieces of this item are in the store the system will show that 10 more are needed for this store. The required stock in the warehouse may at the same time be defined 100 which means that additional 10 items will be required from the warehouse and the warehouse also needs to add 10 items to the stock there.

### 5.11.2.1 Cross Docking

If the Journal is to replenish the warehouse with cross docking to the stores it is necessary to calculate how much should be cross docked to the stores.

The regular Journal process calculates the Calc. Coverage Shortfall according to the **Warehouse Stock Cover Reqd.(Days)** field as the Journal is replenishing the warehouse.

This additional process calculates the Calc. Coverage Shortfall for the store using the field **Store Stock Cover Reqd.(Days).** 

Quantity to Cross Dock = ROUND(Average Daily Sales \*

Calc. Coverage Shortfall,1,'>')

#### Example:

The warehouse has 10 days as Stock Coverage but the store has 5. Then system calculates how much the store needs for 10 days.

Average Daily Sale = 10

Store – Calc. Coverage Shortfall = 3

Warehouse – Calc. Coverage Shortfall = 8

"Quantity to Cross Dock" = 10 \* 3 = 30

"System Suggested Quantity" = 10 \* 8 = 80

The Quantity in the Purchase Order for the warehouse will be 80 but when the Purchase Order is received into the warehouse, the staff cross-docks (picks) the quantity (30) to be delivered by a Transfer Order to the store.

### 5.11.2.2 Suggested Quantity

Now the system can suggest the quantity the warehouse or the store needs.

The same formula is used as for the Calculation Method *Average Usage* but the value of the **Forward Sales Forecast Factor** field is always 1.

System Suggested Quantity =

ROUND(Average Daily Sale \* Calc. Coverage Shortfall \*

Forward Sales Forecast Factor,1,'>')

If the System Suggested Quantity is less than zero, the System Suggested Quantity is set to zero.

Condition:

System Suggested Quantity < 0

Result:

System Suggested Quantity = 0

If Effective Inventory is greater or equal than System Suggested Quantity, the System Suggested Quantity is set to Zero.

Condition:

Effective Inventory > System Suggested Quantity

Result:

System Suggested Quantity = 0

### 5.11.2.3 Reorder Point

If the value in the field **Reorder Point** is greater than zero and System Suggested Quantity is less than the Reorder Point, the **System Suggested Quantity** is set to *Reorder Point* and **Decision** is set to *Brought up to Reorder Point*.

#### Condition:

System Suggested Quantity < Reorder Point

Result:

System Suggested Quantity = Reorder Point

#### 5.11.2.4 Maximum Inventory

If the field **Maximum Inventory** is greater than zero and the sum of **System Suggested Quantity** and **Effective Inventory** is greater than Maximum Inventory, the System Suggested Quantity equals Effective Inventory subtracted from Maximum Inventory. The field **Decision** is set to *Brought to Maximum Inventory*.

#### Condition:

System Suggested Quantity + Effective Inventory > Maximum Inventory

Result:

System Suggested Quantity = Maximum Inventory – Effective Inventory.

#### 5.11.2.5 Cross Dock

If the Journal is to replenish the warehouse with cross docking to the stores and Quantity to Cross Dock is higher than System Suggested Quantity, the Quantity to Cross Dock is set to System Suggested Quantity.

#### Condition:

Purchase Order for warehouse with cross docking

### Result:

Quantity to Cross Dock = System Suggested Quantity

#### Like for Like Replen. Method

The field shows the value that is going to be filled in the **Replen. Method** field in the Replen. Planned Stock Demand table (10012372) when the Statement is posted and the Replen. Calculation Method of the Item is *Like for Like*.

The values are as follows:

- [empty] Not Selected
- Transfer Transfer Order will be created
- **PO to Store** Purchase Order will be created and delivered to the store
- **PO w/XDock** Purchase Order will be created and cross docked at time of receiving at warehouse.

### Like for Like Process Method

The field shows the value that is going to be filled in the field **Process Method** field in the Replen. Planned Stock Demand table when the Statement is posted and the Replen. Calculation Method of the Item is *Like for Like*.

The values are as follows:

- [empty] Not Selected
- Replen. Job The record will be processed in a Replen. Journal Batch job
- **Manual** –The record is to be processed in the Planned Stock Demand Form where the user can create a Purchase Order or Transfer Order Documents

### **Replenishment Planned Stock Demand Table**

The Replenishment Planned Stock Demand table contains stock demand records for the stores. It is possible to apply **Active From Date** to the record and it will then not be valid for replenishment jobs until the date has been reached.



Replenishment Planned Stock Demand records can be created:

- Manually in the Replen. Stock Demand Worksheet or in the Planned Stock Demand under the Item Card.
- As products of Statement posting where the item has the Replenishment Calculation Method *Like for Like*
- As products of Stock Request Documents

There are two ways of changing Replenishment Planned Stock Demand records to Purchase or Transfer Orders:

- By posting the record in the Replenishment Stock Demand Worksheet form.
- As input into the Replenishment Journal Batch job

### 5.11.3 Statement Posting

When a Statement is posted the system creates a Replenishment Planned Stock Demand record for all items with the Replenishment Calculation Method *Like for Like* in the Statement Lines. The record gets the default value from the Replenishment Data for the fields **Like4Like Replen. Method** and **Like4Like Process Method**.

#### Example:

If the Replenishment Data fields contain:

**Like4Like Replen. Method** = PO to Store

Like4Like Process Method. = Replen. Job.

This means that records with these values are created in the Replenishment Planned Stock Demand table. The next step is when the buyer runs a Replenishment Journal of the type *Purchase Order to Store*. The records are included in the process and the item is ordered from the vendor and delivered to the store directly.

There is a report process that looks through all posted Statements and processes Statements that have not been processed.

🚊 🗁 🎦 Per	🚊 🦢 Periodic Activities								
	Replenishment - Calc. Item Quantities								
	Replenishm. Upd Like-for-Like								
	Replenishm. Upd Out of Stock								
	Replenishm. Automatic Run								

🎲 Reple	n. Upd Like-for-Like		- • •
Posted	Statement		
Fi	eld	Filter	
► N	o.		<b>•</b>
S	tore No.		
P	osting Date		
			~
1			<u>S</u> ort
	ОК	Cancel	Help

The report can be filtered by Store No. or/and Posting Date if needed.

The report **Replen. Upd. Like-for-Like** goes through all Posted Statements and checks if the Statement has been processed (is a record in table), and if not, it creates Replenishment Planned Stock Demand records for the items with the Replenishment Calculation Method *Like for Like*.

### 5.11.4 Stock Request Document Posting

The posting of a Stock Request Documents can create Replenishment Planned Stock Demand records.

By selecting the Replenishment Batch Job option, the buyer creates Replenishment Planned Stock Demand records that become an input in the next Replenishment Journal run of the document type selected.

LS Retail - InStore Mgmt	III HOISR0000001 - InStore Stock Req.	
	General         Assign To           No         HOISR0000001	Date 24.01.08
Sales     Stock Request	Store No	
Stock Requests Closed     Transfer	Reference Reference	: Type
⊕- <u>—</u> Receiving ⊕- <u>—</u> Picking ⊕- <u>—</u> Handhelds	InStore R	eference No
na Reports na Standalone Store	Item No. Description	Quantity Unit of Me
ng- ☐ Setup	40000 Swimsuit Liz Beach 2	10 PCS
		· ·
	Stock Req.	Functions     Help
		Send Request
		Decline Request
		Assign Request

To include the lines in the next Replenishment Journal of the type *Transfer Order* for the store select the Transfer Order and the Replenishment Batch Job radio buttons.

HOISR0000001	- InStore Stock Re	q.			- 0	x
General Assign	То					_
Document Type Purchase Or Transfer Ord	der	Purchase Order Vendor No				
Process Type Create Docu Replenishme	ment nt Batch Job					
Item No.	Description		Qua	ntity	Unit of Me	
40000	Swimsuit Liz Beach 2	2		10	PCS	*
						Ŧ
		<u>S</u> tock Req. ▼	Fun	tions 🔻	Help	
_	_			Send Requ	est	
				Decline Re Assign Rec	quest quest	

When selecting the Purchase Order button the buyer can select between having the Purchase Order delivered directly to the store or to have it delivered to the warehouse and then cross docked by a Transfer Order to the store.

Replenishmen	it				•	Replenishm	nent	Iten	n Store				
tem 🔻	S <u>a</u> les 👻	Purchases	▼ Fur	nctions	s 🔻	Location Q	uant	tities	5				
						Out of Stoc	k Da	ays					
						Sales Histor	ry A	djus	tment				
						Planned Sa	r les D	)em	and				
					6	Planned Sto	ock l	Dem	and				
						Replenish f	rom	Wa	rehouse	·			
						Unavailable	Cto	ck					
						Markin D	. 510	CK.					
						Multiple Ro	ound	ling	1				
							_						
eplen. Planned Sto	ck Demand			_		Information	n Ch	leck					0
eplen. Planned Stor	ck Demand It Code Location	Active Fro C	DOuantity	0	Driginal Quantity	Information	n Ch	P	Process D	Process Time	Vendor No.	Vendor Name	
Leplen. Planned Stor Item No. Variant	ck Demand It Code Location S0004	Active Fro C 15.08.07 L	DQuantity	0 3,00	Driginal Quantity 3,00	Information Replenish R. W0002	n Ch	P1	Process D	Process Time	Vendor No.	Vendor Name	
Replen. Planned Stor Item No. Variant 50110 (1) 60110	ck Demand It Code Location S0004 S0004	Active Fro C 15.08.07 L 15.08.07 L	DQuantity	0 3,00 2,00	Driginal Quantity 3,00 2,00	Information Replenish R. W0002 W0002	n Ch	P	Process D	Process Time	Vendor No.	Vendor Name	
teplen. Planned Sto Item No. Variant 60110 1 60110 60110	ck Demand It Code Location S0004 S0004 S0001	Active Fro C 15.08.07 L 15.08.07 L	DQuantity L	0 3,00 2,00 1,00	Driginal Quantity 3,00 2,00 1,00	Replenish R W0002 W0002 P.	P	P 1	Process D 15.08.07	Process Time 14:02:02	Vendor No. 44040	Vendor Name Erik-s Electronics Ltd	
teplen. Planned Sto Item No. Varian 60110 60110 60110	ck Demand It Code Location S0004 S0004 S0001	Active Fro C 15.08.07 L 15.08.07 L 5.08.07 L 5.08.07 L	DQuantity	0 3,00 2,00 1,00	Driginal Quantity 3,00 2,00 1,00	Replenish R W0002 W0002 P.	P	P1	Process D 15.08.07	Process Time 14:02:02	Vendor No. 44040	Vendor Name Erik-s Electronics Ltd	
teplen. Planned Sto Item No. Varian 60110 60110	ck Demand tt Code Location S0004 S0001	Active Fro C 15.08.07 L 15.08.07 L 25.08.07 L 25.08.07 L	DQuantity L S	0 3,00 2,00 1,00	Driginal Quantity 3,00 2,00 1,00	Replenish R. W0002 W0002 P.	P	P1	Process D 15.08.07	Process Time 14:02:02	Vendor No. 44040	Vendor Name Erik-s Electronics Ltd	
teplen. Planned Sto Item No. Varian 60110 60110	ck Demand It Code Location S0004 S0004 S0001	Active Fro C 15.08.07 L 15.08.07 L 5.08.07 L 5	0Quantity  5	0 3,00 2,00 1,00	Driginal Quantity 3,00 2,00 1,00	Replenish R W0002 P.	P	P	Process D 15.08.07	Process Time 14:02:02	Vendor No. 44040	Vendor Name Erik-s Electronics Ltd	
Replen. Planned Sto Item No. Varian 60110 60110	rck Demand It Code Location S0004 S0004 S0001	Active Fro C 15.08.07 L 15.08.07 L	DQuantity	0 3,00 2,00 1,00	Driginal Quantity 3,00 2,00 1,00	Replenish R. W0002 W0002 P.	P	P	Process D 15.08.07	Process Time 14:02:02	Vendor No. 44040	Vendor Name Erik-s Electronics Ltd	

The above screenshot shows a processed Replenishment Planned Stock Demand record.

### 5.11.5 Replenishment Stock Demand Worksheet

The Replenishment Stock Demand Worksheet form gives the buyer the possibility to add, modify or create Replenishment Planned Stock Demand records.

LS Retail - Replenishment	Replen. Stock Demand Worksheet				
Retail Item Card     Retail Item Search     Purchase Replenishment Journal     Transfer Replenishment Journal	Location Filter Process Met WareHouse Location Fi Replen. Met Vendor Filter	hod Filter			
	Item No. Item Description Variant Coc	Location de Variant Description Code	Active From Date	Quantity	Process Method
	▶ 50110   ACE Dishwasher	S0004	15.08.07	3,00	*
Stock Demand Worksheet	60110 ACE Dishwasher	S0004	15.08.07	2,00	
Buyer's Workbench	60120 ACE Refrigerator	S0004	15.08.07	5,00	
	60120 ACE Refrigerator	S0004	15.08.07	4,00	
🗄 🛅 Allocation Plans					
🗄 🛅 Item Import					
🚊 🦢 Periodic Activities					<b>T</b>
					•
🛅 Replenishm. Upd Like-for-Like			P	ostina 🔻	Help
Replenishm. Upd Out of Stock					

The above form shows all unprocessed Replenishment Planned Stock Demand records.

The buyer uses filters to select the records he is going to work with and then selects the function *Create Transfer* or *Create Purchase Orders* under the Posting button.

All records that have a blank **Vendor No**. field when the buyer is creating a Purchase Order will not be processed and left behind. The same behavior applies to the **Replenish. From Warehouse** field and the creation of Transfer Orders.

### 5.11.6 Replenishment Journal – Add Item to Journal

The *Add Item to Journal* function in the Replenishment Journal form inserts a line in the Replenishment Journal lines according to the Replenishment Journal Template. The job will first go through all valid Replenishment Planned Stock Demand records and add them to the journal if there is enough stock. The process will then go through the rest of the Replenishment Calculation Method, for example Average Usage, Manual Estimate and Stock Levels.

# 5.12 Replenishment Journal Detail Line Adjustments

At this time the Replenishment Journal Process has created all the Replenishment Journal Lines and the Replenishment Journal Detail with the suggested quantity to replenish. Now the system will go through each Replenishment Journal Lines and compare the system suggested quantity to the warehouse Effective Inventory and makes adjustments.

emplate Code . atch No	DEFAULT    Repleni: Default	sh Warehouse W0 Replenishment Ba	002 tch								
	Purchas	e W000	2 Warehous	e W0002 - NORTH	Replenishmen	t for a Wareh	ouse				
										_	_
Item No.	Description	Quantity	Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calculation Type	Vendor No.	Vendor Name	Effective Inventory	Direct
▶ 20061	Broccoli	24	•	24	0	KG		44020	AL-s Foods Ltd		
35040	Red Wine - Carbernet S.		BOTTLE		10	BOTTLE		44020	AL-s Foods Ltd		29
40000	Swimsuit Liz Beach 2		PCS		18	PCS		44010	LIZ-s Fashion Ltd		1
60080	Dual Earphones	4.130	PCS	4.146	10	PCS		44040	Erik-s Electronics	-3.	975
60100	Digital Camera	24	PCS	24	0	PCS		44040	Erik-s Electronics		
60110	ACE Dishwasher	20	PCS	20	0	PCS		44040	Erik-s Electronics		
60120	ACE Refrigerator		PCS		0	PCS		44040	Erik-s Electronics		
60200	Casablanca (1943)	170	PCS	180	10	PCS		44040	Erik-s Electronics		
60210	Rocky (2 Disc Collec.Ed)(1976)	170	PCS	180	10	PCS		44040	Erik-s Electronics		
60220	Ocean's Eleven(Widescr)(2001)	170	PCS	180	10	PCS		44040	Erik-s Electronics		
1988-S	SEOUL Guest Chair, red	28	PCS	28	0	PCS		20000	AR Day Property		
								Line 🗸	Functions 👻	Posting	• P
								Replenis Calculat	ihment Line Details ion Log Lines	$\mathbf{D}$	Ctrl+F5
								Retail Ite Replenis	em Card hment Information	n Setup	Shift+F5

For each Replenishment Journal Line it compares the Quantity to the Effective Inventory of the warehouse.

The conditions and adjustments performed:

### A Purchase Replenishment Journal to replenish the warehouse:

### Condition:

Warehouse Effective Inventory > Replenishment Journal Line.Quantity

Result:

Replenishment Journal Line Quantity and the Replenishment Journal Detail Quantity are adjusted to 0

## NOTE:

If there purchase is for more than one location it is not as simple. If Warehouse Effective Inventory = 20 and we need 50 items for each of 2 locations the 20 items will be distributed to these 20 and the remaining 40 items for each location will be ordered. Should there be any inventory in the stores in question they are deducted already.

### Condition:

Warehouse Effective Inventory < Replenishment Journal Line Quantity and

Warehouse Effective Inventory > 0

### Result:

Replenishment Journal Line Quantity is adjusted to warehouse Effective Inventory subtracted from the Quantity and the Replenishment Journal Detail Quantity are adjusted proportionally according to the prior quantity

### Example:

Quantity(30) - warehouse Effective Inventory(10) = Quantity(20)

### Condition:

Warehouse Effective Inventory < 0

Result:

Replenishment Journal Line Quantity is adjusted to warehouse Effective Inventory subtracted from the Quantity and the Replenishment Journal Detail Quantity are adjusted proportionally according to the prior quantity

### Example:

Quantity(30) – warehouse Effective Inventory(-10) = Quantity(40)

### A Transfer Replenishment Journal

Condition:

Warehouse Effective Inventory >= Quantity

Result:

Replenishment Journal Line Quantity and the Replenishment Journal Detail Quantity are adjusted to 0

### Condition:

Warehouse Effective Inventory < Replenishment Journal Line Quantity

Result:

Replenishment Journal Line Quantity is adjusted to warehouse Effective Inventory and the Replenishment Journal Detail Quantity is adjusted proportionally according to the prior quantity

## **5.13 Replenishment Process**

The Replenishment Process for Reoccurring Items is carried out through Replenishment Journals. There are two types of Replenishment Journals:

**Purchase Replenishment Journal**: The journal creates Purchase Order Documents both to replenish stores and warehouses.

**Transfer Replenishment Journal**: The journal creates Transfer Order Document to replenish the stores by transferring goods from the warehouses.



The Replenishment Process for Reoccurring Items includes three steps:

- 1. Creating records in the Replenishment Item Quantity table which is then the input data for the next step.
- 2. Adding and Calculating replenishment quantity to the lines of the Replenishment Journal Lines.
- 3. Posting the Replenishment Journal to create Purchase or Transfer Orders.

### **Replenishment Process for Reoccuring Items**



The figure shows all the three steps

# 5.14 Calculation of the Replenishment Item Quantity

This chapter describes how the Replenishment Item Quantity table is created.

The methods of calculating the table are:

• Item Card

It is possible to have the system calculate the Replenishment Item Quantity records for a specific Item by calling the function *Recalculate Quantity for Item* under:

Retail Item Card, Item button, Replenishment, Location Quantities, Functions button, Recalculate Quantities for Item.

Item No.	Location Variant Code Code	Replenish From War	Inventory	Unavailable Oty	Qty. Sold not Posted	Quantity on Purchase Order	Quantity on Sales Order	Quantity in Transfer In	Quantity in Transfer Out	Date Modifi	e
60110 📤	S0007	W0002	-3.790	0		0		0	0	0 09	A 1.
60110	W0001	W0001	0	0		0		0	0	0 09	a 👘
60110	W0002	W0002	0	0		0		0	0	0 09	0
											$\overline{\nabla}$
•										•	

• Run the **Replenishment – Calc. Item Quantities** report in the Periodic Activities folder.



• It is possible to Schedule the execution of the Replenishment – Calc. Item Quantities report. Under LS Retail Scheduler, Scheduler Job select REPLEN-RUN

REPLEN-STKOUT Replenisment - Automatic Run - Scheduler Job		_	_ 0 💌		
General Object Setup Schedule Details					
Job ID	ob Type istribution Res	trictions . No	teplication 💌		
Scheduler Job Type Code MISC  Subjobs Defined by Job , REPLEN-RUN  D	Distribution Sublocations. Excluded from				
Use Current Location	rror Handling. o-Location Coc o-Location Des	de Skip To	next 💌		
Data Replication Object Replication					
Subjob ID Subjob Description	Enabled	Subjob Type Su	bjob Ta		
	•	Normal	0		
			-		
<u>R</u> un Now <u>A</u> ctions	ne 🔻	<u>]</u> ob 🔻	Help		

General Object Setup Schedule Details			
Object Type Report 💌	Text	[	
Object No	Code		
Object Name Replen. Automatic Run	Integer		0
Uses Scheduler Job Re 🔽	Decimal		0,0
Use Job ID REPLEN-RUN	Date		
	Time		
Last Batch ID			
Last Batch ID	Boolean	🖻	
Last Batch ID	Boolean	Subjob Type Si	ubjob Ta
Last Batch ID       Data Replication       Object Replication       Subjob ID       Subjob Description	Boolean Enabled	Subjob Type Si Normal	ubjob Ta
Last Batch ID	Enabled	Subjob Type Si Normal	ubjob Ta 0 4

• Run the **Replenishment Item Quantity** calculation as part of adding lines to the Replenishment Journal Lines. The system will run the Replenishment – Calc. Item Quantities report as when running it directly in the Periodic Activities folder

🍪 Add Items to Replenishm. Jrnl.	- • •
Replen. Item Quantity Options	
Calculate Inventory	
Skip 0 Lines	
Create Purchase Orders . Do Not Create Purchase Orders Auto	matically 💌
	ncel Help

The above card is located under: LS Retail – Replenishment, Purchase/Transfer Replenishment Journal, Functions, Add Items to Journal, Options tab.

## 5.15 Replenishment Journals

This chapter describes how stores and warehouses are replenished using Replenishment Journals.

### Add Items to Journal

The buyer does most of his work within the system in the Purchase and Transfer Replenishment Journal forms. The journal can be populated by manually adding lines to the journal by executing the function *Add Items to Journal*.

atch	No	DEFAULT Defr	ault Replenishment B hase W00	atch 02 Warehous	e W0002 - NORTH	Replenishmer	nt for a Wareł	nouse	2
1	tem No.	Description	Quantity	Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calc	
۲	20061	Broccoli	24	KG	24	0	KG		l
	35040	Red Wine - Carbernet S.		BOTTLE		10	BOTTLE		[
	40000	Swimsuit Liz Beach 2		PCS		18	PCS		
	60080	Dual Earphones	4.130	PCS	4.146	10	PCS		l
	60100	Digital Camera	24	PCS	24	0	PCS		
	60110	ACE Dishwasher	20	PCS	20	0	PCS		
_	60120	ACE Refrigerator		PCS		0	PCS		
	4							- Þ.	

The Replenishment Journal can also be populated by Scheduling the execution during off hours. It is convenient for companies to have the Replenishment Item Quantity calculation and population of the Replenishment Journals to be Scheduled overnight so that everything is ready for the Buyer when he shows up for work.

The Replenishment Batch record is used to control when the Replenishment Journal should be populated by the Scheduler Job. Irregular Replenishment Journals are set to Manual and the Buyer executes them as he needs.

Field	Filter	
Item No.		
Item Division Co	le	
Item Category C	ode	
Item Product Gro	up C	
Vendor No.		
		<u>S</u> ort

The process steps through the Replenishment Item Quantity table according to the filtering in the Replenishment Template / Add Items to Journal function. The report inherits the filtering from the Replenishment Template record but the buyer alters the filtering for that specific execution of the Replenishment Journal.

🎲 Add Items to Replenishm. Jrnl.	- • <del>x</del>
Replen. Item Quantity Options	
Calculate Inventory	
OK Cancel	) Help

If *Calculate Inventory* is check marked, the system recalculates the Replenishment Item Quantity table before executing the Replenishing Process of adding items to the Replenishment Journal.

If *Skip 0 Lines* is check marked, the Replenishment Process will not insert lines if the result of the calculation is 0. It is advisable not to skip 0 lines when logging the replenishment result as it is not possible to look at the Replenishment Log unless the record exists in the journal.

#### **Replenishment Journal Lines**

The Replenishment Journal Lines show the items that the *Add Items to Journal* function created and each line is a total line for the item number. The Replenishment Journal Detail records are the records down to an individual store/location and variants.

If the user changes the value of the **Quantity** field the system changes the quantity of the Replenishment Journal Detail records according to the proportion of the previous quantity in the records.

If the user creates a record manually to the journal he must also create the Replenishment Journal Detail lines for each store/location and variant. The total quantity of the detail lines will update the quantity of the journal line when the user exits the detail lines.

tch	No	DEFAULT  D	efault Replenishm	nent Ba	itch					
		P	urchase	W000	)2 Warehous	e W0002 - NORTH	Replenishmer	nt for a Wareł	nouse	2
	Item No.	Description	Quantity		Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calc	1
Þ	20061	Broccoli		24	KG	24	0	KG		
	35040	Red Wine - Carbernet S.			BOTTLE		10	BOTTLE		1
	40000	Swimsuit Liz Beach 2			PCS		18	PCS		
	60080	Dual Earphones		4.130	PCS	4.146	10	PCS		
	60100	Digital Camera		24	PCS	24	0	PCS		
	60110	ACE Dishwasher		20	PCS	20	0	PCS		
	60120	ACE Refrigerator			PCS		0	PCS		
	•									

#### **Replenishment Journal Detail**

Replenishment Journal Detail lines show the quantity to replenish down to an individual store/location and variants.

The *Add Items to Journal* function creates one line for each Item No., Variant Code and Location Code where it calculates System Suggested Quantity and then takes into account the stock on hand in the store or/and warehouse to decide the quantity to be ordered. The system uses the Replenishment Journal Detail lines to create the Purchase and Transfer Order Lines.

itch N	No	DEFAULT 🕥 D	efault Repleni	shment Ba	atch				
		P	urchase	W000	)2 Warehous	e W0002 - North	Replenishmer	nt for a Ware	house
Ite	em No.	Description	Quantit	ty	Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calcı
١.	20061	Broccoli		24	KG	24	0	KG	
	35040	Red Wine - Carbernet S.			BOTTLE		10	BOTTLE	
	40000	Swimsuit Liz Beach 2			PCS		18	PCS	
	60080	Dual Earphones		4.130	PCS	4.146	10	PCS	
	60100	Digital Camera		24	PCS	24	0	PCS	
	60110	ACE Dishwasher		20	PCS	20	0	PCS	
	60120	ACE Refrigerator			PCS		0	PCS	
-	(								P.
	_	_	Line Reple Calcu	Fu nishment lation Lo	inctions 👻 t Line Detail g Lines	Posting	rint	▼ <u>H</u>	elp

	Item No.	Variant Code	Description	Location	Location Name	Quantity	System Sugge Q
Þ	20061		Broccoli	S0002	Cronus Super Marke	24	24
_							
_							
_							
	4						•

The Replenishment Journal Detail record contains information that is used to determine the quantity to be ordered.

### 5.15.1.1 Planned Stock Demand Lines

Replenishment Planned Stock Demand records with the Replenishment Method field *Replen. Job* is waiting to be replenished by the Replenishment Journal. The Replenishment Planned Stock Demand record can have an **Active From Date** which dictates when the record is valid for replenishment. The **Active From Date** makes it possible to plan future stock distribution.



The above figure shows the Replenishment Journal Process.

The Replenishment Journal Process runs first through the Planned Stock Demand Records. Therefore the Planned Stock Demand record might take all the available stock before the other Replenishment Calculation Methods have a chance to run.

#### Example:

🗐 Purchase Rep	lenishment Journal						•	23
Template Code . Batch No....	RT00002 🗭 R	teplenish Warehouse W0 Default Replenishment Ba	002 atch					
	Р	urchase W000	)2 Warehous	e W0002 - NORTH	Replenishmen	it for a Wareł	nouse	
Item No.	Description	Quantity	Unit of Measure	System Suggested Qu	Warehouse Effective Inve	Orig. Unit of Measure	Calcı	
20061	Broccoli	24	KG	24	■ 0	KG		
35040	Ped Wine - Carbernet S		BOTTLE		10	POTTIE		
📅 Purch Replen. Jrnl Details						23		
------------------------------	-------------	----------	--------------------	----------	----------------	----		
Item No. Variant Code	Description	Location	Location Name	Quantity	System Sugge (	Qi		
> 20061	Broccoli	S0002	Cronus Super Marke	24	24	*		

In this case there is only one Planned Stock Demand record but the system will create as many lines in the Replenishment Journal Detail lines as the number Planned Stock Demand records are processed.

If the total quantity for an Item No. and Location is not a multiple of the document type, for example transfer Multiples, the last record will be split.

#### Example:

Planned Stock Demand Records

Quantity = 11

Quantity = 11

Quantity = 10

The Transfer Multiple = 10

Then the last record of 10 is split into 8, which goes into the Journal, and a new record with the quantity 2.

The Planned Stock Demand record (LS Retail – Replenishment, Retail Item Card, Item button, select Replenishment and from there Planned Stock Demand) contains both the origin of the record and its destination. You can choose in column Process Status either In process or Processed.

untitled - Retail Item Card Sortorden - No.      Item Description     No     Description     Division Code     Item Category Code      Product Group Code      General Invoiding Orderin Barcode No      Barcode No	Picture Variant Framework Collection Special Order Cancelation Units of Measure Variants Attributes Special Groups Events Item Status Item In Hierarchy	Shift+Ctrl+V	0,00 0,00 0,00 0,00 0 3rd P.POS 0
Common Item No Special Group Code Variant Framework Code.	Retail BOM Components Assembly List Price History	Shift+Ctrl+C ▶	0
Replenishment Item Store Location Quantities Out of Stock Days Sales History Adjustment Planned Sales Demand	Barcodes Find Barcode Set Priority to 3rd P.POS - Transmission Actions Store Information	Shift+Ctrl+F	0 0,00 0,00 •
Planned Stock Demand Replenish from Warehouse Unavailable Stock Multiple Rounding Information Check	POS Item Linking Text and Printing Setup Replenishment	> > >	
	Item V Sales V Purchases V	Functions 👻	Help

1	tem No.	Variant Code	Location Code	Active From Date	о т	Quantity		Original Quantity	Replenish From Warehouse	Replenishing Method	Process Method	Process Status	Process Date	Process Tir
·	40000				L		0,00	0,00					-	
												In process		
												Processed		
Ì	•													Þ

#### The Origins of the Record

The creation date and time of the record:

- Create Date
- Create Time

Filled in if the origin of the record is from the posting of a Stock Request Document:

- Stock Request Document No.
- Stock Request Line No.

Filled in if the origin of the record is from the posting of a Statement of an item with the Replenishment Calculation Method *Like for Like*:

• Statement No.

#### Destination of the record

Process fields:

- Process Status status is either processed, in process or not
- Process Date
- Process Time

#### The method in which the record is to be processed

The value can be inherited from the Replenishment Data at the time of creation or manually assigned in the Stock Demand Worksheet.

- Process Method
  - BLANK No decision has been made
  - Replen. Job The record is to be an input in the Replenishment Journal Process
  - Manual The record is to be processed in the Stock Demand Worksheet

The Replenishment Method field determines which type of the document to create. The value can be inherited from the Replenishment Data at the creation time or manually assigned in the Stock Demand Worksheet.

#### Replenishing Method

- BLANK No decision has been made
- Transfer Create a Transfer Order

PO to Store – Create a Purchase Order to be delivered directly to the store
 PO w/XDock – Create a Purchase Order to be delivered to the warehouse and picked to Transfer Order when the goods are received at the warehouse

If the record destination is a Replenishment Journal, these fields are filled out:

- Replen. Journal Template Code
- Replen. Journal Batch No.
- Replen. Journal Line No.
- Replen. Jrnl Detail Line No.

If the record destination is a Purchase Order created in the Stock Demand Worksheet, these fields are filled out:

- Purchase Order Document Type
- Purchase Order Document No.
- Purchase Oder Line No.

If the record destination is a Transfer Order created in the Stock Demand Worksheet, these fields are filled out:

- Transfer Order Document No.
- Transfer Order Line No.

Hint

When a Planned Stock Demand is read and inserted into a Replen. Journal Line it is marked as In Process and it cannot be read to another Journal. If the Replen. Journal Line is deleted the Planned Stock Demand records is un-processed and made available again for replenishment. If the Journal line is posted to an order the Planned Stock Demand record is marked as processed and date and time is set.

#### **Calculation Log Lines**

The system supports a logging functionality showing the Replenishment Data, Inventory, Sales information and which decision and formulas were used to arrive at the quantity to order.

The logging is set up in the Replenishment Setup record. The logging functionality should only be used to occasionally to investigate data and decisions in the replenishment quantity.

Item No.	Variant Code Location	Message Text	Date Inse	Time Inse
20061	S0002	Checking Item=20061 Variant= Store=S0002	26.05.11	11:22:39
2006	1 S0002	Replen. Data - Replen. Source = Item - Item No. = 20061 - Variant Code	26.05.11	11:22:39
2006	1 S0002	Replen. Data - Replenishment Grade Code = - Reorder Point = 10 - Maxi	26.05.11	11:22:39
2006	1 S0002	Replen. Data - Not Active for Replenishment = No - Exclude from Autom	26.05.11	11:22:39
2006	1 S0002	Replen. Data - Manual Estimated Daily Sale = 3 - Store Stock Cover Reqd	26.05.11	11:22:39
2006	1 S0002	Replen. Data - Store Forward Sales Profile = - Wareh. Forward Sales Pro	26.05.11	11:22:39
2006	1 S0002	Location S0002 is within Store Group Filter	26.05.11	11:22:39
2006	1 S0002	Store Effective Inventory = 0 - Warehouse Effective Inventory = 0	26.05.11	11:22:39
2006	1 S0002	Calc. Coverage Shortfall(8) = ROUND(((Average Daily Sales(3) * Required	26.05.11	11:22:39
2006	1 S0002	ROUND(System Suggested Quantity(24) := Average Daily Sales(3) * Calc	26.05.11	11:22:39
2006	1 W0002	Checking Item=20061 Variant= Store=W0002	26.05.11	11:22:39
2006	1 W0002	Location is a warehouse - Item Store Record does not exist for the wareh	26.05.11	11:22:39

The above figure show the Replenishment Log for the item 40000 and store S0002.

#### Statistics (F9)

The Statistics form gives the buyer a good overview of the total quantity and direct cost of the Replenishment Journal. The detail lines show the quantity and direct Cost down to each vendor in the Replenishment Journal. See **LS Retail – Replenishment, Purchase Replenishment Journal, Posting** tab, **Statistics** (or **F9**).

🔲 Replen	. Purch	Jrnl. Sta	itistics					x
Replenishn Replenishn No. of Ven Total No. o Total Quan Total Direc	nent Ter Idors . of Journ ntity :t Cost A	npla npla al Lines  mount	RT00002 DEFAULT 4 11 4.736 68.480,00	Replenish Default Re	Warehouse W	10002 Jatch	]	
No.		Name			No. of Jrnl. Lines	Total Quantity	Direct Cost Amount	
	20000	AR Day	Property Management	t	1	28	2.730,00	~
	44010	LIZ-s Fa	ashion Ltd		1	0	0,00	
	44020	AL-s Fo	ods Ltd		2	24	3.600,00	
	44040	Erik-s El	ectronics Ltd		7	4.684	62.150,00	Ŧ
							Help	

## 6 Allocation of One Time Items

#### 6.2 Replenishment Setup

There is some part of the setup in the Replenishment Setup form (LS Retail – Replenishment, Setup, Replenishment, Replenishment Setup) that is needed for Allocation of One Time Items and Replenishment.

Replen. Setup
General Numbering Stock Out Functionality Vendor Performance Effective Inventory
Template No. Series R-REPLENTE
Buyer's Push No. Series . R-REPLENBP
Purchase Contract No R-PURCHCON
Recall No. Series R-RECALL
Replenis 🔻 Help

The Buyer's Push No. Series contains the number series that is used when creating a new Buyer's Push worksheet.

#### 6.3 Location Record

🕅 BLUE Blue Warehouse - Location Card	
General Communication Warehouse Bins Bin Policies	Replenishment
Replenishment Group LARGE  Replenishment Weight 60,00	Replenish as Location
Default Replenishm. G A	
Active for Autom. Repl	
Use Planned Cross Do 🔽	
Location is a Warehouse .	
	Location V Help

A few new fields have been added to the Location Card (**LS Retail – Replenishment, Setup, Replenishment, Locations**). The Replenishment Group is used by Planned Cross Docking and the Buyer's Push functions. It allows the user to group locations together.

In the Replenishment Weight field you can set up a default weight (importance) for the location. It can be based on last year's sales, floor area or other factors. The Planned Cross Docking and the Buyer's Push functions can distribute items to locations based on the Replenishment Weight.

#### 6.4 Replenishment Store Groups

Code	Name	
LARGE	Large Stores	-
MEDIUM	Medium Stores	
SMALL	Small Stores	
1		
		-

In the Replenishment Store Groups form (LS Retail – Replenishment, Setup, Replenishment, Replenishment Groups) you can define the store groups. Later on it is possible to work with the store groups instead of each location. Examples are Cross Docking and Buyer's Push.

## 6.5 Replenishment Rule

Gen	neral Ca	alculation						
Cod	de		DEFAULT					
Des	scription .		. Default Replenishment Rule					
Rep	olenishme	nt Type	. Weighted 💌					
	Туре	Code	Name	Weight	% Share	Default Weight	Exclude	
•	Type Reple	Code MEDIUM	Name Medium Stores	Weight 20,00	% Share 66,67	Default Weight 14,00	Exclude	
•	Type Reple Reple	Code MEDIUM SMALL	Name Medium Stores Small Stores	Weight 20,00 10,00	% Share 66,67 33,33	Default Weight 14,00 3,40	Exclude	
•	Type Reple Reple	Code MEDIUM SMALL	Name Medium Stores Small Stores	Weight 20,00 10,00	% Share 66,67 33,33	Default Weight 14,00 3,40	Exclude	
•	Type Reple Reple	Code MEDIUM SMALL	Name Medium Stores Small Stores	Weight 20,00 10,00	% Share 66,67 33,33	Default Weight 14,00 3,40	Exclude	

The Replenishment Rule (LS Retail – Replenishment, Setup, Replenishment, Replenishment Rule) is used by the Buyer's Push function.

- In the Replenishment Rule form you can create your own rule by inserting a new record and giving it a new code. Fill in your code in the **Code** field and put a description in the **Description** field.
- In the **Type** field you can enter either Replenishment Group or Location. If you enter Replenishment Group, the value in the **Code** field will be selected from the Replenishment Groups. If you enter Location in the **Type** field, the value in the **Code** field will be a Location. The **Name** field will be automatically filled in according to the value in the **Code** field, but it can be changed manually.
- In the Weight field you can enter a value and the %Share field will be calculated using the formula: Weight / SUM(Weight) \* 100. The SUM(Weight) is 19 + 22 + 37 + 18 + 10 = 106. The %Share for the first line is therefore 19 / 106 \* 100 = 17,92.
- The Buyer's Push functionality can use the %Share to distribute a purchase order quantity between locations. If no Weight is filled in for a Replenishment Rule, the quantity will be distributed evenly between the stores.
- The **Default Weight** field shows the Replenishment Weight of the location or the Replenishment Group.

- If the field **Exclude** is check marked, no quantity will be distributed to that location or Replenishment Group.
- It is possible to define the default Replenishment Rule code for an item by specifying the Replenishment Rule for the Product Groups and the Item Categories.

DEFAULT -	Replen. Ru	le						- 0 X
General Ca	alculation							
Run Frequen	ıcy	Run Manually		Item Divi	sion Code		١	
Last Run Dat	te			Item Cat	egory Code.		٦	
Last Run Tim	e			Product (	Group Code	•	٠	
Next Run Da	ite			/ Item No.		•	(†	-
				Date Cal	culation Type .	. Date		
				Starting I	Date			
				Ending D	ate			
Туре	Code	Name	/	Weight	% Shar	e Def	ault Weight	Evolude
Reple	MEDIUM	Medium Stopes	1	weight	20,00	66,67	14,00	
Reple	SMALL	Small Stores			10,00	33,33	3,40	
								~
								Uala
_	<u>K</u>							пер
Product Gro	oups			$\frown$			_	- 0 🔀
-			Oty not	in Replenish.	Replen.	Replen.	Buver Group	
Code	Descriptio	n	Decimal	Rule Code	Distributio	Data Profile	Code	Profit Goal 1
▶ ACC	Accessor	ies						
	S Catalogs							E
RADIO	Badio					RADIO		
	( Carano					101010		
VCR	Video Ca	ssette Recorders	5					
COFFEE	Video Ca Coffee	ssette Recorders	S					
COFFEE DISTILLEE	Video Ca Coffee D Distilled V	Vater	5					
VCR COFFEE DISTILLEI SOFT DR.	Video Ca Coffee D Distilled V Soft Drin	Vater is	5					
VCR COFFEE DISTILLEI SOFT DR. CRUST	Video Ca Coffee D Distilled V Soft Drin Crust	Vater ks	5	OK	Cancel	Produ	uct 💌	+ Help
VCR COFFEE DISTILLED SOFT DR. CRUST	Video Ca Coffee D Distilled I Soft Drin Crust	Vater ks		ОК	Cancel	Produ	uct 🔻 [	Help
VCR COFFEE DISTILLEI SOFT DR. CRUST CRUST	Video Ca Coffee D Distilled I Soft Drin Crust	Vater ks		ок	Cancel	Produ	uct 🔻 (	Help
VCR COFFEE DISTILLEI SOFT DR. CRUST CRUST	Video Ca Coffee D Distilled V Soft Drin Crust	Vater ks		ок	Cancel	Produ	uct 🔻 (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST	Video Ca Coffee D Distilled 1 Soft Drin Crust	Vater ks		OK	Cancel	Produ	uct 🔻 (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST	Video Ca Coffee D Distilled 1 Soft Drin Crust	Manually	s Item C	OK Division Code Category Code	Cancel	Produ Produ	uct 🔻 (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CALCENT	Video Ca Coffee D Distilled 1 Soft Drin Crust	Manually	s Item D Item C Produ	OK OK Division Code Category Code to Group Code	Cancel	Produ Produ	uct 🔻 (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST Calcul Run Frequency .ast Run Date. .ast Run Time. .ext Run Date	Video Ca Coffee D Distilled 1 Soft Drin Crust	Manually ()	s Item C Produ Item N Date C	OK OK Division Code Category Code ct Group Code Calculation Type .	Cancel	Produ Produ	uct 🔻 (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST Calcul Run Frequency .ast Run Date. .ast Run Time. Jext Run Date	Video Ca Coffee D Distilled 1 Soft Drin Crust	Manually	s Item D Item C Produ Item N Date C Startin	OK OK Division Code Category Code ct Group Code Calculation Type	Cancel	Produ Produ	• (	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CALCAR	Video Ca Coffee D Distilled 1 Soft Drin Crust	Manually	s Item D Item C Produ Item N Date C Startin Ending	OK OK Division Code	Cancel	Produ Produ		Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST Calcul Run Frequency .ast Run Date. .ast Run Date	Video Ca Coffee D Distilled 1 Soft Drin Crust alation Rut Rut Rut Rut Rut Rut Rut Rut	Manually	s Item D Item C Produ Item N Date C Startin Ending	OK OK Division Code Category Code ct Group Code og Date g Date	Cancel	Produ Produ	Jet 💌 (	Help
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VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST Calcul Xun Frequency ast Run Date. 	Video Ca Coffee D Distilled 1 Soft Drin Crust alation Distilled 1 Crust alation de Nam DIUM Met ALL Sma es Code E BREAD/I DRRY	Nater KS Na	s Item C Item C Produ Item N Date C Startin Ending	OK Division Code Category Code Category Code Calculation Type ng Date g Date nishment Rule Co ULT ULT	Cancel	Produ	Default Weig 67 14 33 3 em Hier Def. RET/ RET/ RET/	Help Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CALLEN C	Video Ca Coffee D Distilled 1 Soft Drin Crust alation Rur Lation Rur Soft Drin Soft Drin Rur 	Nater KS Na	s Item D Produ Ending Ending Ending Ending	OK Division Code Category Code ct Group Code category Code category Code ng Date g Date g Date	Cancel	Produ	Default Weig 67 14 33 3 em Hier Def. RET/ RET/ RET/	Help Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CAUDING CA	Video Ca Coffee D Distilled 1 Soft Drin Crust alation Rur Lation Rur 	e lum Stores ll	s Item D Item C Item C Item C Item C Item C Item A DefA DefA DefA DefA DefA DefA	OK OK OK OVision Code Category Code ct Group Code ng Date g Date g Date g Date	Cancel	Produ     Produ     P	Default Weig 67 14 33 3 em Hier Def. RET/ RET/ RET/ RET/	Help
VCR COFFEE DISTILLED SOFT DR. CRUST CRUST CRUST CRUST CRUST CRUST CRUST CRUST CAUCIAN Represent Calcul Run Frequency .ast Run Date .ast Run Time. Vext Run Date Reple ME Reple ME Reple ME Reple SM Item Categori Division C FOOD FOOD FOOD FOOD FOOD FOOD FOOD F	Video Ca Coffee D Distilled 1 Soft Drin Crust alation Rur 	e e lum Stores li Stores l	s Item D Item C Item C Produ Produ Item N Date C Startin Ending C Ending E	OK OK OK Okvision Code Category Code ct Group Code og Date g Date	Cancel Ca	Produ  Produ Produ  Produ Prod	Default Weig 67 14 33 3 em Hier Def. RET/ RET/ RET/ RET/ RET/ RET/	Help Help
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#### 6.6 Variant Weights

Using variants is always optional. In Replenishment they are for instance used to set minimum and maximum for all variants for each item. Min/max for Replenishment is either set by using Item minimum and maximum or Variant minimum or maximum. The order of search for min/max is to the most detailed to the least detailed, for instance Item, Variant, Location and so on.

#### 6.6.1 Variant Weights of Base Variant Values

The system supports the definition of all values of Variant Dimension, also known as Base Variant Values at LS Retail – BackOffice, Setup, Item, Variant Framework, Variant Framework Base Values. The simplest way is to define the weight for each value of the Base Variant Dimension. The weights will be inherited to the dimension values of the Variant Framework.

	Code	Extension	Inclui Varia	ded in nt No.	Variant Delimiter							
Þ	COLOUR											
	FUEL											
	ICECR-FLAVOURS											
	SIZE											
	STYLE											
	TEMPERATURE											
						Logical		Default Variant	Fuel Price	v	/ariant	
						Logical		Default Variant	Fuel Price	V	/ariant	
	Value	Value Ty	pe	Comparie	son Value	Logical Order	Color	Default Variant Weight	Fuel Price Group Id	v	/ariant Veight %	
Þ	Value BLACK	Value Ty Default	pe	Compari	son Value	Logical Order 9	Color	Default Variant Weight 0,00	Fuel Price Group Id	v v o	/ariant Veight % 0,00	)
•	Value BLACK BLUE	Value Ty Default Default	pe	Compari	son Value	Logical Order 9 12	Color	Default Variant Weight 0,00 0,00	Fuel Price Group Id	V V 0	/ariant Veight % 0,00 0,00	0
•	Value BLACK BLUE BROWN	Value Ty Default Default Default	pe	Compari	son Value	Logical Order 9 12 11	Color	Default Variant Weight 0,00 0,00 0,00	Fuel Price Group Id	V V 0 0	/ariant Veight % 0,00 0,00 0,00	
•	Value BLACK BLUE BROWN GRAY	Value Ty Default Default Default Default	pe	Compari	son Value	Logical Order 9 12 11 10	Color	Default Variant Weight 0,00 0,00 0,00 0,00	Fuel Price Group Id	V 0 0 0 0	/ariant Veight % 0,00 0,00 0,00 0,00	
•	Value BLACK BLUE BROWN GRAY GREEN	Value Ty Default Default Default Default Default	pe	Compari	son Value	Logical Order 9 12 11 10 8	Color	Default Variant Weight 0,00 0,00 0,00 0,00 0,00	Fuel Price Group Id		/ariant Veight % 0,00 0,00 0,00 0,00 0,00	)))))))))))))))))))))))))))))))))))))))
•	Value BLACK BLUE BROWN GRAY GREEN NAVY OR NICE	Value Ty Default Default Default Default Default Default	pe	Comparis	son Value	Logical Order 9 12 11 10 8 1	Color	Default Variant Weight 0,00 0,00 0,00 0,00 0,00 0,00	Fuel Price Group Id		/ariant Veight % 0,00 0,00 0,00 0,00 0,00 0,00	))))))
•	Value BLACK BLUE BROWN GRAY GREEN NAVY ORANGE	Value Ty Default Default Default Default Default Default Default	pe	Compari	son Value	Logical Order 9 12 11 10 8 1 7 7	Color	Default Variant Weight 0,00 0,00 0,00 0,00 0,00 0,00 0,00	Fuel Price Group Id		/ariant Weight % 0,00 0,00 0,00 0,00 0,00 0,00	) ) ) )
•	Value BLACK BLUE BROWN GRAY GREEN NAVY ORANGE PINK	Value Tyj Default Default Default Default Default Default Default	pe	Comparie	son Value	Logical Order 9 12 11 10 8 1 7 6	Color	Default Variant Weight 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,	Fuel Price Group Id	V V 0 0 0 0 0 0 0 0	/ariant Weight % 0,00 0,00 0,00 0,00 0,00 0,00 0,00	
	Value BLACK BLUE BROWN GRAY GREEN NAVY ORANGE PINK PURPLE	Value Ty Default Default Default Default Default Default Default Default	pe	Compari	son Value	Logical Order 9 12 11 10 8 1 1 7 6 1	Color	Default Variant Weight 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,	Fuel Price Group Id	V V 0 0 0 0 0 0 0 0 0 0 0	/ariant Weight % 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,	

# 6.6.2 Variant Weights of Variant Frameworks Dimension Values

Variant combinations are defined in a Variant Framework at: LS Retail – BackOffice, Setup, Item, Variant Framework, Variant Framework Base Values. The buyer defines the dimension types (Color, Size or Style) and selects the values of the dimension (Black, Orange, Green...). The weight of the dimension values are inherited from the Base Variant Values.

			( 📼 wo	OMEN - Variant Fi	amework									
				Code						E	xtension	Included in Variant No.	Variant	Delimiter
				COLOUR						Image: A start of the start				
				SIZE										
0020 Skirt Liz	Professional We	ar - Retail Item Card												
order: . No.		Filters:												
m Description														
D		40020 🥒												
escription	Skirt Liz	Professional Wear												
vision Code	NONFO	OD 🗈												
em Category C	Code CLOTH	NG 🗈												
oduct Group C	ode WOME	I-S 🚯		/alue		Value Type	Comp	arison Value	Order	Color	Weight	Group I	te va d W	ariant eight %
	L			BLACK		Default			9			7,00	0	21,2
eneral Invoid	ing Ordering F	OS Pricing Distrib	u (	GREEN		Default			8			6,00	0	18,1
		00000000000		ORANGE		Default			7			8,00	0	24,2
rcode No		000003043		PINK		Default			6			5,00	0	15,1
rcode Mask .	02NNN	NNN 👔		RED		Default			5	-		4,00	0	12,1
ommon Item No	D			rellow		Default			4			3,00	0	9,0
pecial Group Co	ode LIZ-LIN													
ariant Framewo	ork Code. WOME										_			
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em Family Co		ework codes setup		Desistantian	These	Deadurat		Marcinet	Dener de		Manian			
ate Created	Code	Description		Type	Category	Group	Vendor	Suffix/Se	Mask	Barcodin	Pricing	Stock Ke	ep W	indow
	COFFEE	Coffee		Automatic				1		Default	No	None		~
eated by Us	FUEL	Gasoline		Automatic				F001		Default	No	None		
DOM STELLING	ICECREAM	Icecream flavors		Automatic				1		Default	No	None		~
ast Date Mou	MEN	Men-s Cloting		Automatic S	CLOTHING	MEN-S		000	02NNNN	Default	Na	None		
st Modified I		Women-s Clothing		Automatic S	CLOTHING	WOMEN-S		000	02NNNN	Default	No	None		
ist Modified I	► WOMEN													
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#### 6.6.3 Item Variant Weights

The buyer specifies the Variant Framework Code for the item and the system creates the Item Variant Record according to the configuration of the Variant Framework setup. The weight field of the dimension values is inherited from the Variant Framework setup. The user does not need to select all the dimension values of the Variant Framework and he can also change the weight of the variant in order for it to fit better for the specific item. This card can be accessed directly from the **Retail Item Card, General** tab, **Variant Framework Code** field.

Framework Code	Description	Registration Type	Item Category	Product Group	Vendor	Variant Suffix/Se	Barcode Mask	Barcoding	Variant Pricing	Usage of Stock Keep	Use Pop-u Window
COFFEE	Coffee	Automatic				1		Default	No	None	~
FUEL	Gasoline	Automatic				F001		Default	No	None	
ICECREAM	Icecream flavors	Automatic				1		Default	No	None	~
MEN	Men-s Cloting	Automatic S	CLOTHING	MEN-S		000	02NNNN	Default	No	None	
WOMEN	Women-s Clothing	Automatic S	CLOTHING	WOMEN-S		000	02NNNN	Default	No	None	

The Variant Weight of the Variant record is automatically calculated by multiplying the values of the dimensions.

#### 6.7 Scenario 7 - Weights

Variant 000 the Dimension 1 weight (3) \* Dimension 2 weight (15) = Variant Weight (45).

The buyer can then for example change the weight of Dimension 1 to 5 to recalculate to 75 as the Variant Weight. The buyer can also just change the Variant Weight directly to 75 without changing the Dimension Weight. The system uses the value of the field Variant Weight and not the Dimension Weight except to calculate the Variant Weight.

#### Hint:

The buyer can define the weight of values in the Base records and then adjust any of the lower stages to better fit the Variant Framework or the Item. The hierarchy of data can save the buyer some repetition of his work



#### 6.7.1 Using Variant Weight in Purchase Orders

You can use variant weight when entering quantities in purchase orders lines. When the user enters the quantity of an item with variants, the system shows the Variant Matrix form so that the user can adjust or confirm the quantity for each variant. For an item with Variant Weight the system calculates the quantity for each Variant whereas an item without Variant Weight would give each item the same quantity. Look up the **LS Retail – Replenishment, Retail Purchase Order**.

Seneral Retail Fr	Foreign Trade												
vo	HO10602	5		Postir	ng Date	15.08	.07						
Buy-from Vendor No.		44010 🖈	1	Order	Date	15.08	.07						
Buy-from Contact No	0	•	]	Docur	ment Date	15.08	.07						
Buy-from Vendor Nar	ame . LIZ-s Fash	nion Ltd	,	Expec	cted Receipt Date	e. 01.08	.07						
Buy-from Address .	Hi Fashior	House		Vendo	or Order No								
uy-from Address 2				Vendo	or Shipment No.			7					
Juy-from Post Code/	/City GB-N16 3	4Z 🗈	London	Vende	or Invoice No								
uy-from Contact .	Flat Foot			Order	Address Code.		1						
Io. of Archived Vers	sions.	0		Statu	s	Open							
ersion No		0		Retail	Status	New		2					
tore No			]	Buyer	ID	SUPER		h					
ocation Code	W0001	٦	]	Creat	ed By Source Coo	de.	1	1					
				Buyer	Group Code.								
T No. I 40000 ♦ 40020	Vendor It Var 1P11-154 1P34-956 WOMEN 4002	ant Code D S S 20 SIZE 34	Description Swimsuit Liz Be Skirt Liz Profes - Dimension	each 2 sional Wear Matrix 🗲		Locatio W0001 W0001	n Unit PCS PCS	of M. Qui	200 2.000	200 2.000	2.	vice Direct	Uni 52,00 38,60
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T No. I 40000 40020	Vendor It Var 1P11-154 1P34-956 WOMEN 4000 Extra Combinatio	ant Code E S 20 SIZE 34 on Filters	Description Swimsuit Liz Be Skirt Liz Profes	aach 2 sional Wear Matrix 🗲		Locatio W000 1 W000 1	n Unit PCS PCS	Show Values	200 2.000	200 2.000	2.	ice Direct	Uni 52,00 38,60
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T No. I 40000 ↓ 40020	Vendor It Var IP11-154 IP34-956 VOMEN 400. Extra Combinate SIZE	ant Code D 20 SIZE 34 on Filters 34 36 38 40 42 44 46	<ul> <li>Dimension</li> <li>VELLOW</li> <li>VELLOW</li> <li>IE</li> <li>11</li> <li>33</li> <li>22</li> <li>16</li> </ul>	ach 2 sional Wear Matrix RED [ 17 5 22 3 44 1 55 7 50 5 33 5 22	21NK ORA 21 28 55 69 62 41 28	Locatio W0001 W001 W01 W	n Unit PCS PCS PCS PCS N BL 25 33 66 83 74 50 33	show Values Qty 2.000 ACK 29 39 77 96 87 58 39	Contraction of the second seco	200 2.000 © Recei © Invok	ved/S	ice Direct	Uni 52,00 38,60

#### Example:

Shows Item 40020 with Variant Weights (2000 pieces distributed between Variants)

#### 6.8 Cross Docking

The buyer creates a Purchase Order like any other Purchase Orders except that he additionally creates a Planned Cross Docking Transfer Order that will be picked at the warehouse at the time of receiving.

	ВH	01060	25 LIZ-s Fasł	nion Ltd - R	etail Purchas	e Order								×
	Ger	neral	Retail Fore	ign Trade										
	No			. HO1060	25	1	Posting Date .	[	15.08.07					
	Bu	y-from	Vendor No.		44010 👔		Order Date	[	15.08.07					
	Bu	y-from	Contact No.		۲		Document Date	•••••	15.08.07					
	Bu	y-from	Vendor Name	. LIZ-s Fa	shion Ltd		Expected Rece	ipt Date .	01.08.07					
	Bu	y-from	Address	. Hi Fashio	on House		Vendor Order N	lo [						
	Bu	y-from	Address 2				Vendor Shipme	nt No						
	Bu	y-from	Post Code/Ci	ty GB-N16	34Z 🗈	London 💽	Vendor Invoice	No						
	Bu	y-from	Contact	. Flat Foo	t		Order Address	Code [		•				
	No	. of Are	chived Versior	ıs.	0		Status	· · · · · [	Open					
	Ver	rsion N	0		0		Retail Status ,	· · · · · [	New					
	Sto	ore No.		•	۲		Buyer ID		SUPER	۲				
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	►	Item	40000	1P11-154		Swimsuit Liz Beach 2		W0001	PCS	200	200	200	52,00	~
			40020	1P34-956		Skirt Liz Professional	Wear	W0001	PCS	2.000	2.000	2.000	38,60	
														Ŧ
							Order 🔻	Line	▼ Funct	ions 🔻	Posting -	Print -	Help	
													<u> </u>	

6.8.1 Using the Planned Cross Docking

You can use the Planned Cross Docking when you want to distribute items to the stores immediately when they arrive at the warehouse. You don't want to first put the whole purchase order in shelves or bins in the warehouse, and then create Pick Documents so that they can be picked and shipped. The goods will go directly from the receiving area of the warehouse to the dispatch area. Planned Cross Docking links warehouse Transfer Orders directly to a Purchase Order. LS Retail – Replenishment, Retail Purchase Order, Functions button, select Warehouse, Planned Cross Docking.

HO106025 LIZ-s Fashion Ltd - Retail Pure	chase Order								x
General Retail Foreign Trade									
No	🥒	Posting Da	te [	15.08.07					
Buv-from Vendor No	•	Order Date	[	15.08.07					
Buy-from Contact No	•	Document I	Date	15.08.07					
Buy-from Vendor Name , LIZ-s Fashion Ltd		Expected R	Receipt Date .	01.08.07					
Buy-from Address Hi Fashion House		Vendor Ord	der No						
Buy-from Address 2		Vendor Shij	pment No						
Buy-from Post Code/City GB-N16 34Z	London	Vendor Inv	oice No						
Buv-from Contact Flat Foot		Order Addr	ress Code		<b>▶</b>				
No. of Archived Versions. 0		Status		Dpen					
Version No 0		Retail Stat	us S	ent 🛛					
Store No	٦	Buyer ID .	s	UPER 🕢	•				
Location Code W0001	•	Created By	Source Code.		<b>•</b>				
		Buyer Grou	ıp Code		•				
T No Vendor It Variant Cor	de Description		Location	Unit of M O	uantity Oty	to Receive Ot	v To Invoice Din	ectlini	5
► I 40000 1P11-154	Swimsuit Linda Beach		W0001	PCS	5	5	5	52,00	~
40020 1P34-956	Skirt Liz Professional W	ear	W0001	PCS	1.890	1.873	1.873	38,60	
									Ŧ
	_			6	W arei	nouse, Planne	ed Cross Docki	ng	_
		Order	<ul> <li>Line</li> </ul>	Functions	▼ P <u>o</u> sti	ng 🔻	int V	Help	
		-							
HO106025 - Allocation Plan Cross Dockin	ng								×
Purchase Order No HO 106025	) (	/endor No .				44010			
Location Code W0001	\	/endor Name	LIZ	-s Fashion Ltd					
Location Name Warehouse W0001	- SOUTH	/endor Invoid	ce No		]				
Quantity Difference Cross D	oc. Difference								
Show All	/ All								
Show Under Delivered 🔲 Show	Under Delivered 🕅								
Show Over Delivered Show	Over Delivered								
	Verient Unit of C	Nataria al	Quantity	01. 1. 0	- C	60000	cooo2 coo	0.5	
No. Description Descript	tion 2 Code Measu C	Quantity Q	uantity Difference	Receive Dock	. Qty. Doc. Dif	Cronus Su	Cronus Fa Croi	nus R O	<u>.</u>
▶ 40000 Swimsuit Linda Be	PCS	5	5	5	5	1	1	2	*
40020 Skirt Liz Professio YELLOW	V/34 000 PCS	12	12	12	6	6 6	6	6	Ξ
40020 Skirt Liz Professio YELLOW	V/36 001 PCS	33	33	33	18	-2 0 15	6	6	
40020 Skirt Liz Professio YELLOW	V/42 004 PCS	37	37	20	20	10	10	10	
40020 Skirt Liz Professio YELLOW	V/46 006 PCS	16	16	16	12	4 6		6	
40020 Skirt Liz Professio RED/34	007 PCS	17	17	17	12	5 6		6	
40020 Skirt Liz Professio RED/36	008 PCS	22	22	22	18	4 6	6	6	
40020 Skirt Liz Professio RED/40	010 PCS	44 55	99 55	99 55	24 30	20 6 25 6	12	6	
40020 Skirt Liz Professio RED/42	011 PCS	50	50	50	24	26 6	6	6	Ŧ
•		I	11					Þ	
							a and Mar	11.1	1

The Planned Cross Docking function in the LS Retail system allows you to determine how much of each Item and Variant you want to distribute directly to each store. It creates warehouse Transfer Orders, one for each store. The Transfer-from Code is always the warehouse and the Transfer-to Code fields contains the store's location code.

# 6.8.2 Setting up the Replenishment Information on the Location Card

A location can be linked to a Replenishment Group by filling out the Replenishment Group field on the Replenishment tab of the Location card. The Location Weight should also be filled out here. It is used when ordered quantity needs to be distributed between Stores or Locations. The goods are distributed proportionally so that the Location with the greatest weight will receive the most and the Location with the smallest weight will receive the least quantity.

#### 1. Select LS Retail – Replenishment, Setup, Locations card.

2. On **Replenishment** tab, mark Use Planned Cross Docking and Replenishment Group and Weight.

Email Reports	BLUE Blue Warehouse - Location Card	- • ×
Setup Allocation Replenishment Replenishment Setup Replenishment Grade Replenishment Template Replenishment Groups Replenishment Rule Replenishment Sales Profile Replen. Forw. Sales Profile Replen. Data Profile Card Replen. Multiple Rounding	General       Communication       Warehouse       Bins       Bin Policies       Replenishment         Replenishment       General       Communication       Warehouse       Bins       Bin Policies       Replenishment         Default Weight       .       LARGE       Image: Communication       Communication       Communication         Default Weight       .       .       .       50,00       Communication       Communication         Active for Autom. Repl       Image: Communication       Image: Communication       Image: Communication       Communication         Use Planned Cross Do       Image: Communication       Image: Communication       Image: Communication       Image: Communication         Location is a Warehouse.       Image: Communication       Image: Communication       Image: Communication       Image: Communication	
	×	
Replen, From Warehouse     Locations     Replenishm, Item Profile	Location	Help

#### **Example of Cross Docking:**

Variant 000 has the Variant Weight of 45

Variant 001 has the Variant Weight of 60

The system adds up all the Variant Weights of the Item to make the total of 7437.

Then the system calculates the quantity for Variant 000 as 2000 \* (45/7437) = 12.10 = 12

The Variant Weight saves a lot of work for the buyer to fill in all the data but still it is only a suggestion and the buyer can change it as he likes.

If the total quantity is recalculated, the total quantity of the item when leaving the Variant Matrix form will be the quantity registered in the Purchase Order. Thus, for example if the new total quantity is greater or smaller than the older total quantity, it is updated automatically.

If the Variants do not have Variant Weights defined, the system distributes the quantity evenly between all the Variants of the item.

#### Hint:

The Variant Weight distribution is only calculated if there are no Variant records for the item. Otherwise it will show the value of the Variant records.

#### Hint:

The Item record shown in the Purchase Lines is a record of the type BLANK

►		40020	1P34-956	Skirt Liz Professional Wear	W0001	PCS	2.000
	G/L Accou	int					
	Item						
	Fixed Ass	et					
	Charge (I	tem)					
_	·						

The real Variant records in the Purchase Lines are not visible as they are not within the filter of the form. You can see them by removing the filter.

	т.,	No.		Vendor I	Variant C	Description	Location	Unit of M	Quantity	Qty. to Receive	Qty. To Invoice	Direc
	I		40000	1P11-154		Swimsuit Liz Beach 2	W0001	PCS	200	200	200	~
Þ	1	•	40020	1P34-956		Skirt Liz Professional Wear	W0001	PCS	2.000	2.000	2.000	
	I		40020	1P34-956	000	Skirt Liz Professional Wear	W0001	PCS	12	12	12	
	I		40020	1P34-956	001	Skirt Liz Professional Wear	W0001	PCS	16	16	16	
	I		40020	1P34-956	002	Skirt Liz Professional Wear	W0001	PCS	33	33	33	
	I		40020	1P34-956	003	Skirt Liz Professional Wear	W0001	PCS	41	41	41	
	I		40020	1P34-956	004	Skirt Liz Professional Wear	W0001	PCS	37	37	37	
	I		40020	1P34-956	005	Skirt Liz Professional Wear	W0001	PCS	25	25	25	
	I		40020	1P34-956	006	Skirt Liz Professional Wear	W0001	PCS	16	16	16	~
	<											>

Now the buyer has created a Purchase Order for 2000 pieces and the Variant Weights has suggested the distribution of the Variants.

The buyer has completed the Purchase Order but he wants to cross dock the Purchase Order to stores when receiving the goods at the warehouse.

The buyer presses the Functions button and selects the functions *Warehouse* and *Planned Cross Docking*.

📰 HO106025 LIZ-s Fashion Ltd - Retail Purchase Order				
General Retail Foreign Trade				
No	Posting Date         15.08.07           Order Date         15.08.07           Document Date         15.08.07           Document Date         15.08.07           Expected Receipt Date         0.108.07           Vendor Order No		Calculate Invoice Discount Copy Document Archive Document Move Negative Lines Explode BOM Inset Ext. Texts Get Phase? Tark/Step	
Location Code W0001 🔹	Created By Source Code.		Drop Shipment	
Type         No.         Vendor IL         Variant Code Description           Item         40000 IP11154         Swimault Uz           ↓         40020 IP34-956         Skint Uz Pro	Buyer Group Code: (19) Beach 2 Fessional Wear	Location Un W0001 PC Planned Cross Docking Receipt Lines Create Receipt	Special Order P Reserve Order Tracking Warehouse P Release Ctrl+F11 Reopen Send BizTalk Purchase Order Send Order As ICT	rect Uni 52,00 ^ 38,60
		Order V Line V R	Close function Send Order (Ownership) Send Order Keep Ownership Increment Version No. Send to Franchiser anctions V Posting V Brint V	Help

The system now presents the Replenishment Planned Cross Docking form.

Purchase Order N Location Code Location Name . Quantity Differen Show All Show Under De Show Over Del	Io         HO 106025            W0001            Warehouse           nce         .           elivered         .	e W0001 - SOL Cross Doc. Di Show All Show Unde Show Over	ЛН fference er Deliver	🗹	Vendor No Vendor Na Vendor In	ame voice No.	LIZ-s	Fashion L	d	44	010	
Location Code Location Name . Quantity Different Show All Show Under De Show Over Del	W0001 Warehous nce V elivered	e W0001 - SOU Cross Doc. Di Show All Show Unde Show Over	JTH fference er Deliver	🔽	Vendor Na Vendor In	ame voice No.	LIZ-s	Fashion Lt	d			
Quantity Different Show All Show Under De Show Over Del	Warehouse nce 	e W0001 - SOL Cross Doc. Di Show All Show Unde Show Over	ЛТН fference er Deliver	🔽	Vendor In	voice No.	•••					
Quantity Different Show All Show Under De Show Over Del	nce · · · · · · · · · · · · · · · · · · ·	Cross Doc. Di Show All Show Unde Show Over	fference er Deliver	🔽	]							
Show All Show Under De Show Over Del	elivered 🕅	Show All Show Under	er Deliver	••••••••••••••••••••••••••••••••••••••	]							
Show Under De	elivered 🗖	Show All Show Under	er Deliver	••••	]							
Show Under De	elivered 📃 livered 🔲	Show Unde Show Over	er Deliver	ed 🔳								
Show Over De	livered 🔳	Show Over	Delivere		]							
brieff over be		bilon ore		d 🗖	1							
					1							
			Variant	Unit of	Original		Quantity	Qty. to	Cross	Cross	S0002	SOC
No. I	Description	Description 2	Code	Measu	Quantity	Quantity	Difference	Receive	Dock. Qty.	Doc. Dif	Cronus Su	Crc
♦ 40000	Swimsuit Linda Be			PCS				0	120	-120	23	-
40020	Skirt Liz Professio	YELLOW/34	000	PCS		12		12	6	6	6	=
40020	Skirt Liz Professio	YELLOW/36	001	PCS		16		16	12	4	6	
40020	Skirt Liz Professio	YELLOW/38	002	PCS		33		33	18	15		
40020	Skirt Liz Professio	YELLOW/40	003	PCS		41		41	24	17	6	
40020	Skirt Liz Professio	YELLOW/42	004	PCS		37		37	12	25		
40020	Skirt Liz Professio	YELLOW/44	005	PCS		25		25	12	13		
40020	Skirt Liz Professio	YELLOW/46	006	PCS		16		16	12	4	6	
40020	Skirt Liz Professio	RED/34	007	PCS		17		17	12	5	6	
40020	Skirt Liz Professio	RED/36	008	PCS		22		22	18	4	6	
40020	Skirt Liz Professio	RED/38	009	PCS		44		44	24	20	6	-
•												F

The Replenishment Planned Cross Docking Form shows all the Purchase Order Lines where every Variant line is shown. To the right of the matrix form, the system shows the list of Locations.

# 6.9For further details on the Cross Docking issues see: The Allocation Plan – Quick Guide Buyer's Push

The Buyer's Push functionality allows you to create transfer orders from the warehouse to the stores or locations.

Click on Buyer's Push in the Replenishment menu to open the Buyer's Push matrix form.

If you want to create a new worksheet, click on the **Functions** button and select *Insert New Worksheet* or press the Ctrl+F3 button.

In the new worksheet, fill in the **Description** field and enter the location code of the warehouse in the **Distribute from Location Code** field.

🗔 RI	B00005 - Bu	iyer's Pusł	h Matrix								x
No		[	RB00005 💽			Date	Created	🗌	31.05.11	14:18	
Desc	ription	[				Crea	ted by User.	SL	JPER.		
Distr	ibute from L	ocatio	W0001 🕕 Ware	house W0001 - SOUTH	)	Repl	Groups or Lo	cations Re	plenishmen	💌	
Buve	er ID					Shov	Inventory in	Loc			
Buye	r Group	[				Shov	/ Sales Figure	s in 📃			
Juye		[				Date	Filter for Sale	s Fi			
	Item No.	Variant Code	Description	Description 2	Inventory	Quantity to Distribute	Difference	LARGE	MEDIUM Mediu	SMALL Small S	
Þ					0	0					*
											-
								•		•	
				Line 🔻	Eunction	ns 🔻 📴	yer's P 🔻	Express	Entr	Help	
					Ins	ert New W	orksheet	C	trl+F3		
					Ac	ld Items to	Worksheet				
					De	lete the Bu	er's Push Pl	an C	trl+F4		

#### 6.9.1 Adding items to the worksheet.

You can manually enter the item no. in the **Item No.** field, use the lookup functionality to select the item from the item list, or click on the Functions button and select the Add Items to Worksheet.

🎲 Rep	olen. Add Items to Buy P	ush	
Item	Options		
	Field	Filter	
	No.		<b>(</b>
	Inventory Posting Group		
	Item Category Code		
	Product Group Code		
	Vendor No.		-
1			<u>S</u> ort
	ОК	Cancel	Help

In this document we will use the Buyer's Push functionality to ship items from the WOMEN-S Product Group from the W0001 warehouse to the stores. We therefore use *Add Items to Worksheet* and enter *WOMEN-S* in the Product Group Code field.

🎇 Replen. Add Items to Buy Push	
Item Options	
Additional Allocation No RB00005	
Skip 0 Lines 📝	
	Halp
UK Cancer	, riep

By activating the field **Skip 0 Lines** the process does not add items to the worksheet where the available stock of the item is 0 or less in Location W0001.

Once we press the **OK** button, the system adds the items to the worksheet.

R	300003 - Buy	er's Push	Matrix								Ð
ю		F	RB00003 💽			Date O	reated	[	03.12.07	17:21	
	de Nora					Create	d by User	<b>S</b>	PER		
esc	ription	· · · ·				Repl. G	roups or Loc	ations Re	plenishmen	💌	
stri	bute from Loo	atio	W0001 👔 Ware	house W0001 - SOUTH		Show I	nventerv in l	oc 🔲			
iye	r ID	5	SUPER 🗈			Show 1	les Cierco				
we	r Group					Show S	ales Figures	m			
.,-	. oroup					Date Fi	Iter for Sales	s Fi			
_		Variant				Quantity to		LADOF	MEDIUM	CMALL	Т
	Item No.	Code	Description	Description 2	Inventory	Distribute	Difference	Large	Mediu	Small S	
۲	40020	030	Skirt Liz Professio	GREEN/38	110	• 0	11				T
	40020	031	Skirt Liz Professio	GREEN/40	110	C	11				
	40020	032	Skirt Liz Professio	GREEN/42	110	C	11				
	40020	033	Skirt Liz Professio	GREEN/44	110	C	11				
	40020	034	Skirt Liz Professio	GREEN/46	110	C	11				ľ
	40020	035	Skirt Liz Professio	BLACK/34	110	C	11				1
	40020	036	Skirt Liz Professio	BLACK/36	110	0	11				
_	40020	037	Skirt Liz Professio	BLACK/38	110	0	11				
	40020	038	Skirt Liz Professio	BLACK/40	110	0	11				
	40020	039	Skirt Liz Professio	BLACK/42	110	0	11				
	40020	040	Skirt Liz Professio	BLACK/44	110	0	11				
	•						- F	•		•	
				Line 🔻	Eunctions	▼ Buye	r's P ▼	Express	Entr	Help	_

The Inventory column shows the inventory at the warehouse location. When we have filled in the quantity fields under the location codes in the matrix portion of the form, the **Quantity to Distribute** will show the total quantity that is to be distributed. The **Difference** field shows the difference between the **Inventory** and the **Quantity to Distribute** fields.

#### 6.9.2 Filling in the Quantity to Distribute

Here you can fill in the quantity you want to distribute from the warehouse to the stores or locations. You can do this by manually entering the quantity for each location or you can use the Express Entry form.

Click on the Express Entry button to open the Replen. Buyer's Push Expr. form:

🗊 Replen. Buyer's Push Expr
Buyer's Push Entry Form
Buyer's Push No RB00003
No. of Lines
Line Filter:
Select Current Item and All Variants     40020
Select Current Item and Current Variant Only
Inventory in Selected Lines . 4.620
Min. Qty. to Distrib. to eac 0
Quantity to Distribute 2000
Replenishment Group Filter: .
Location Filter
Distribute Quantity By:   Replenishment Rules DEFAULT
C Location Weight
Fixed Quantity for All
Update Lines Cancel

The buyer needs to select if he is going to distribute all items, a specific item or a specific variant record with the Express Entry Form.

The **Min. Qty. to Distribute each Location** field gives the buyer the chance to specify the minimum quantity each Location should receive. The system then distributes the minimum quantity to each Location and the quantity that is left will be distributed according to the distribution ratios.

The **Quantity to Distribute** field defines how much of the quantity will distributed. For example the available quantity is 4620 pieces but the buyer wants to distribute only 2000 pieces by cross docking.

If you want to limit the distribution to certain Replenishment Groups, you can enter a filter for these replenishment groups in the Replenishment Group Filter and if you want to limit the distribution to certain locations you can enter a filter for them in the **Location Filter** field.

These filters are not used if the Distribute Quantity By is set to Replenishing Rules and the specifications of the Replenishing Rule are used.

The different options of the Distribute Quantity By function:

#### Replenishment Rules

- This function is not valid if *All Order Lines* is selected the suggested value is not shown
- The Replenishment Rule value shown is the value the system finds for the item by searching first in the Product Group and then in the Item Category
- The user can select another value for the Replenishment Rule than the system suggests.
- The Replenishment Group and Location Filter are not valid in this selection
- The quantity is distributed according to the specifications of the Replenishment Rule.
- Location Weight
  - The system uses the value of the **Replenishment Weight** field in the Location record
  - The Replenishment Group and Location Filter can be used
- Fixed Quantity for All
  - The system will distribute the value of the field **Quantity to Distribute** to each Location / Store if there is enough stock. Otherwise all the stores get an equal share of the stock available.

• The Replenishment Group and Location Filter can be used

#### Hint:

If the buyer needs to delete the distributed quantity then press the Express Entry Form Button and then press the Update Line Button with all the fields empty. The system asks for a confirmation that the user wants to change the Cross Docking data to zero.

We press the Update Lines and the system calculates the quantity to distribute.

) ISC	ription	[	RB00003 💼		_	Date Crea Created b	vy User	. 03. . Super	.12.07 17:2	1	
tri ye ye	bute from Lo r ID r Group	catio [	W0001 🛈 Warehow	use W0001 - SOUTH		Repl. Gro Show Inv Show Sale Date Filte	ups or Location entory in Loc es Figures in r for Sales Fi	ns Repleni	shmen 💽		
	Item No.	Variant Code	Description	Description 2	Inventory	Quantity to Distribute	Difference	LARGE Large	MEDIUM Mediu	SMALL Small S	1
Þ	40020	030	Skirt Liz Professional	GREEN/38	110	➡ 48	62		36	12	
	40020	031	Skirt Liz Professional	GREEN/40	110	48	62		36	12	
	40020	032	Skirt Liz Professional	GREEN/42	110	48	62		36	12	
	40020	033	Skirt Liz Professional	GREEN/44	110	48	62		36	12	
_	40020	034	Skirt Liz Professional	GREEN/46	110	48	62		36	12	
	40020	035	Skirt Liz Professional	BLACK/34	110	48	62		36	12	
	40020	036	Skirt Liz Professional	BLACK/36	110	48	62		36	12	
	40020	037	' Skirt Liz Professional	BLACK/38	110	48	62		36	12	
	40020	038	Skirt Liz Professional	BLACK/40	110	48	62		36	12	
	40020	039	Skirt Liz Professional	BLACK/42	110	48	62		36	12	
	40020	040	Skirt Liz Professional	BLACK/44	110	48	62		36	12	
								•			•

When the **Update Lines** button is pressed, the system steps through all the lines in the worksheet and calculates the quantity to distribute for each line and then distributes it between the store locations S0001, S0002, S0003, S0004 and S0005 using the location weight.

#### 6.9.3 Show Additional Information

In the upper right hand area of the Buyer's Push Matrix form there are two fields, **Show Inventory in Locations** and **Show Sales Figures in Location**. If you check mark them, the system displays the inventory and sales information in addition to the Quantity to Distribute for each combination of Item No. and Location Code. The inventory is displayed within parentheses. Sales information preceded by the lower case letter 's'.

	Show Inventory in Loc. Show Sales Figures in 28,02,11,.30,05,11									
Inventory	Quantity to Distribute	Differenc	LARGE Large Stores	MEDIUM Medium Stores	SMALL Small Stores					
110	48		(-1)	36(8)	12(0)					
110	48		(0)	36(17)	12(0)					
110	48		(0)	36(5)	12(0)					
110	48		(0)	36(5)	12(0)					
110	48		(0)	36(8)	12(0)					
110	48		(0)	36(37)	12(0)					
110	48		(0)	36(29)	12(0)					
110	48		(0)	36(7)	12(0)					
110	48		(0)	36(15)	12(0)					
110	48		(0)	36(17)	12(0)					
110	48		(0)	36(17)	12(0)					

Sales information is preceded by the lower case letter 's'.

Show Inventory in Loc									
Inventory	Quantity to Distribute	Differenc	LARGE Large Stores	MEDIUM Medium Stores	SMALL Small Stores				
110	48		(0)(s 0)	(36(8)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(17)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(5)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(5)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(8)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(37)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(29)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(7)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(15)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(17)(s 0)	12(0)(s 0)				
110	48		(0)(s 0)	36(17)(s 0)	12(0)(s 0)				

#### 6.9.4 Replenishment Groups or Locations

Also in the upper right hand area of the Buyer's Push Matrix form there is an option field where you can select to show either Replenishment Groups or Locations. If you select Replenishment Groups, the system shows the Replenishment Groups as the columns in the matrix part of the form. It sums up the Quantity to Distribute and the inventory if the Show Inventory in Locations is check marked.

Repl. G Show Ir Show S Date Fil	roups or L aventory in ales Figure ter for Sal	ocations n Loc es in les Fi	Replenisl Replenisl Location	nment G 💌	
Quantity to Distribute	Differenc	LARGE La Stores	arge	MEDIUM Medium Stores	SMALL Small Stores
48			(-1)(s 0)	36(8)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(17)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(5)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(5)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(8)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(37)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(29)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(7)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(15)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(17)(s 0)	12(0)(s 0)
48			(0)(s 0)	36(17)(s 0)	12(0)(s 0)

Repl. G Show Ir Show S Date Fil	roups or L nventory i ales Figure ter for Sal	ocations n Loc es in les Fi	Replenish	Codes		
Quantity to Distribute	Differenc	BLUE Blu Warehou	e Jse	S0001 Cronus Super Market	S0002 Cronus Super Market	S0003 Cronus Fashion Store
48			(0)	(0)	(0)	18(5)
48			(0)	(0)	(0)	18(7)
48			(0)	(0)	(0)	18(7)
0			(0)	(0)	(0)	(8)
0			(0)	(0)	(0)	(3.825)
0			(0)	(0)	(0)	(6)
0			(0)	(0)	(0)	(5)
0			(0)	(0)	(0)	(4)
0			(0)	(0)	(0)	(8)
0			(0)	(0)	(0)	(7)
0			(0)	(0)	(0)	(11)

#### 6.9.5 Creating Transfer Orders

You can manually change the quantity you want to distribute by entering the correct quantity in the appropriate line and column. When you are satisfied with the quantity you want to distribute, you can create Transfer Orders.



Under the **Buyer's Push** menu button, select *Create Transfers* or press F11. You get a message asking you to confirm that you want to create the Transfers.



If you press the **Yes** button, the system creates Transfer Orders where the Transfer-From Code is the warehouse location and the Transfer-To Code is the Location Code in the matrix part of the Buyer's Push Matrix form.

#### 6.9.6 Setting up the Transfer Routes

Note that you must set up Transfer Routes between the warehouse and the stores. Otherwise you might get an error message saying that you must specify the In-Transit Code in the transfers. To set up the Transfer Routes, go to the **Warehouse** menu, select **Planning and Execution, Setup Inventory** and click on **Transfer Routes**. This card can also be reached from the **Administration** menu. For further information use the standard NAV Help.

RED Red War	rehouse - Transfer Routes					
Show Show Transfer	In-Transit Code 💌 -to Name . 🔲					
Transfer BLUE GREEN HO ISDIEFER RED RED	Transfer-from Name Blue Warehouse Green Warehouse Head Office InStore Mgt Difference Red Warehouse	BLUE OUT. LOG. [	GREEN	HO	ISDIFFER	
S0001 S0001SPO S0002	Silver Warehouse Cronus Super Market South Cronus Super Market South SPO Cronus Super Market North			General In-Transit C Shipping Ag Shipping Ag	code OUT. LOG. ent Code FEDEX ent Servic NEXT DAY	
					ОК С	ancel Help

When transferring for instance from RED to BLUE, the **In-Transit Code** needs to be set to ensure the transfer. Other fields that can be set are **Shipping Agent Code and Shipping Agent Service**.

## 7 Buyers Workbench

The Buyers Workbench is a tool to give the buyer a good overview of all the Replenishment Journals, Purchase and Transfer Orders he is responsible for.

iroup Filter						
pand Description	No. of Lines Document Type	Document No.	Location	Location	Message	Planned C
<ul> <li>Purchase Order</li> </ul>	11					
<ul> <li>LIZ-s Fashion Ltd</li> </ul>	44 Purchase Order	HO106025	W0001		Expected Recei	
Planned Cross Docking Transfers	43 Transfer Order	HO1016	S0003	S0002		
Planned Cross Docking Transfers	43 Transfer Order	HO1015	W0001	S0003		
Planned Cross Docking Transfers	41 Transfer Order	HO 1033	W0001	S0004		
Planned Cross Docking Transfers	43 Transfer Order	HO 10 18	W0001	S0005		
Planned Cross Docking Transfers	43 Transfer Order	HO1017	W0001	S0007		
Planned Cross Docking Transfers	22 Transfer Order	HO 1035	W0001	S0008		
Planned Cross Docking Transfers	18 Transfer Order	HO1034	W0001	S0009		
<ul> <li>DAVI-s Fashion Ltd</li> </ul>	42 Purchase Order	HO106026	W0001			
AL-s Foods Ltd	5 Purchase Order	HO106027	S0001		Expected Recei	
Erik-s Electronics Ltd	4 Purchase Order	HO 106028	S0001		Expected Recei	
Oli-s Office Goods	4 Purchase Order	HO 106030	W0001			
AL-s Foods Ltd	1 Purchase Order	HO 106039	S0001			
AL-s Foods Ltd	1 Purchase Order	HO106040	S0001			
AL-s Foods Ltd	1 Purchase Order	HO106041	S0001			
London Postmaster	1 Purchase Order	HO106063	S0001			
AR Day Property Management	1 Purchase Order	HO106064	S0001			
AL-s Foods Ltd	7 Purchase Order	HO 106029	W0001			
Purchase Orders - Special Order	6					
Warehouse Replenishment	3					
Store Replenishment	1					
Transfer Replenishment	3					
Buyer's Push Worksheets	5					
Transfer Order	19					

The workbench shows the headlines and number of documents under the headline. The buyer can then press the arrow in the Expand column to show all underlying documents.

#### 7.2 Document Groups

#### 7.2.1 Purchase Order

The headline shows all the Purchase Order Documents that did not originate from a Purchase Replenishment Journal and the Buyer or the Buyer Group responsible. It is possible to drill down to the Document Number to show the Document.

HO106025 LIZ-s Fashion Ltd - Retail Pu	ırchase Order						-	
General Retail Foreign Trade								
No.         HO 106025           Buy-from Vendor No.         44010           Buy-from Contact No.         112-5 Fashion L1           Buy-from Address         III Fashion House           Buy-from Address		Posting Date         15.           Order Date         15.           Document Date         15.           Expected Receipt Date         01.           Vendor Order No.         Vendor Shipment No.           Vendor Order No.         Order Address Code.           Status         Open           Retal Status         New           Buyer ID         SUPER           Greated By Source Code.	8.07 8.07 8.07 8.07 8.07					
T No.         Vendor It Variant Cc           ▶         1         40000         1P11-54           40020         1P34-955         1	ode Description Swimsuit Liz Beach 2 Skirt Liz Professional Wea	Buyer Group Code	Location . W0001 W0001	Unit of M PCS PCS	Quantity Q 200 2.000	ty. to Receive 0 200 2.000	2ty. To Invoice D 200 2.000	irect Uni 52,00 38,60
		Order	▼] Line	Function	is V Po	sting 🔻	Print V	Help

The marked boxes show where the Buyer ID and/or Buyers Group must be filled in to have the Document visible in the workbench.

The form shows Purchase Order Document that does not originate from a Purchase Replenishment Journal which all has the **Created By Source Code** defined by the field **Replen. Source Code** in the Replenishment Setup record.

🗊 Replen. Setup	
General Numbering Stock Out Functionality Vendor Performance Effective Inventory	
Store Items Ranged By . Item Category/Grad  Default Central Wareh W0001	
Replen. Source Code REPLEN	
Create Retail Purch. O 🗹 Create Calc. Loo Lines 🐨	
Autom. Insert from Ite	
Replenis 💌	Help

By drilling down on the Purchase Order and expanding each level on the Buyer's Workbench card the buyer can see all the Transfer Orders related to the Purchase Order.

er Group	Filter						
Expand	Description	No. of Lines	Document T	Document No.	Location	Location	Message
•	Purchase Order	11					
•	LIZ-s Fashion Ltd	44	Purchase O	HO106025	W0001		Expected Receipt Date was 01.08
	Planned Cross Docking	43	Transfer O	HO1016	S0003	S0002	
	Planned Cross Docking	43	Transfer O	HO1015	W0001	S0003	
	Planned Cross Docking	43	Transfer O	HO1018	W0001	S0005	
	Planned Cross Docking	43	Transfer O	HO1017	W0001	S0007	
•	DAVI-s Fashion Ltd	42	Purchase O	HO106026	W0001		
	Planned Cross Docking	40	Transfer O	HO1019	W0001	S0003	
	Planned Cross Docking	40	Transfer O	HO1020	W0001	S0004	
	Planned Cross Docking	40	Transfer O	HO1022	W0001	S0005	
	Planned Cross Docking	40	Transfer O	HO1021	W0001	S0007	
	AL-s Foods Ltd	5	Purchase O	HO106027	S0001		Expected Receipt Date was 14.08
	Erik-s Electronics Ltd	4	Purchase O	HO106028	S0001		Expected Receipt Date was 15.08
	Oli-s Office Goods	4	Purchase O	HO106030	W0001		
•			11	1			

The Message field shows a message to the buyer saying that the Purchase Order is past the Expected Receipt Date of the Document.

#### **Purchase Orders from Replenishment**

The headline shows all the Purchase Order Documents that originated from a Purchase Replenishment Journal and the Buyer or the Buyer Group responsible. The functionality is the same as for **Purchase Order**.

The exception however is the field **Created By Source Code** in the Purchase Header. It contains the value defined in the field **Replen. Source Code** in the Replenishment Setup record.

#### Warehouse Replenishment

The headline shows all the Purchase Replenishment Journals used to replenish warehouses and the Buyer or the Buyer Group responsible. It is possible to drill down to the Document Number to show the Document.

plate Code h No	RT00002  Replenie DEFAULT Default	sh Warehouse W0 Replenishment Ba	002 ich								
	Purchas	w000	2 Warehouse	e W0002 - NORTH	Replenishment for a Wareh	ouse					
74 \$1-	Description	0	Unit of	System	Warehouse Orig. Unit of	Colo de Vere Trans		V	Effective		
200	51 Broccoli	Quantity	Measure	Suggested Qu	D KG	Calculation Type	44020	AL-s Foods Ltd	Inventory	150.00	Amount 3 600 0
350	40 Red Wine - Carbernet S.		BOTTLE	21	10 BOTTLE		44020	AL-s Foods Ltd	29	5.00	0.0
400	00 Swimsuit Liz Beach 2		PCS		18 PCS		44010	LIZ-s Fashion Ltd	1	52.00	0.0
600	30 Dual Earphones	4,130	PCS	4,146	10 PCS		44040	Erik-s Electronics	-3,975	10.00	41.300.0
601	00 Digital Camera	24	PCS	24	0 PCS		44040	Erik-s Electronics		550,00	13.200,0
601	10 ACE Dishwasher	20	PCS	20	0 PCS		44040	Erik-s Electronics		0,00	0,0
601	20 ACE Refrigerator		PCS		0 PCS		44040	Erik-s Electronics		0,00	0,0
602	00 Casablanca (1943)	170	PCS	180	10 PCS		44040	Erik-s Electronics		15,00	2.550,0
602	10 Rocky (2 Disc Collec.Ed)(1976)	170	PCS	180	10 PCS		44040	Erik-s Electronics		15,00	2.550,0
602	20 Ocean's Eleven(Widescr)(2001)	170	PCS	180	10 PCS		44040	Erik-s Electronics		15,00	2.550,0
1988-S	SEOUL Guest Chair, red	28	PCS	28	0 PCS		20000	AR Day Property		97,50	2.730,0

The Replenishment Worksheet Batch window is found at this path: LS Retail – Replenishment, Purchase/Transfer Replenishment Journal, click the Batch No. and the Replen. Worksheet Batches window opens, click the Batch button and the Replen. Worksheet Batch window opens.



📅 RT00002 DEFAULT - Replen. Worksheet Batch	- • ×
General Run Frequency	
Replenishment Templa 100002 (1) Replenish Warehouse W0002	
Batch No DEFAULT	
Description Default Replenishment Batch	
Buyer ID SUPER 💽	
Buyer Group Code	
Create Calc. Log Lines	
Batch	✓ Help

The marked boxes show the Buyer ID and/or Buyers Group that must be filled in in the Replenishment Batch record to have the Purchase Replenishment Journal visible in the workbench.

•	Warehouse Replenishment	3				
	Replenish Warehouse W0001	31	Warehouse	RT00001		Next Run Date was 27.05.11.
	Replenish Warehouse W0002	11	Warehouse	RT00002		Next Run Date was 27.05.11.
	Purchase Order w/X-Docking	33	Warehouse	RT00006		

The Message field on the Buyer's Workbench card displays a message to the buyer about the Purchase Replenishment Journal, if the Next Run Date of the Batch record has past the current date. This shows the buyer which Replenishment Journals he has scheduled but not processed.

#### **Store Replenishment**

The headline shows all the Purchase Replenishment Journals used to replenish stores directly and the Buyer or the Buyer Group responsible. The functionality is same as for **Warehouse Replenishment.** 

#### Transfer Replenishment

The headline shows all the Transfer Replenishment Journals and the Buyer or the Buyer Group responsible. The functionality is same as for **Warehouse Replenishment**.

#### **Buyer's Push Worksheets**

The headline shows all Buyer's Push Worksheets and the Buyer or the Buyer Group responsible. It is possible to drill down to the Document Number to show the Document.

🗔 R	RB000	003 - Buy	er's Push	Matrix									- • ×
No. Des	 cripti	on	· · · · [	RB00003 💽			Date Cr Creater Repl. G	eated d by User.	[	03.1 SUPER Replenist	12.07 17:21		
Buye	ributi er ID er Gr	e from Loo  oup	atio	W0001 💽 Warel	house W0001 - SOUTH		Show In Show S Date Fi	nventory i ales Figure ter for Sal	n Loc [ es in [ les Fi	<ul> <li>✓</li> <li>28.02.11</li> </ul>	.,30.05.11		
	Iter	m No.	Variant Code	Description	Description 2	Inventory	Quantity to Distribute	Differenc	LARGE La Stores	arge	MEDIUM Medium Stores	SMALL Small Stores	
	•	40020	030	Skirt Liz Professio	GREEN/38	110	48			(-1)	36(8)	12(0)	A
		40020	031	Skirt Liz Professio	GREEN/40	110	48			(0)	36(17)	12(0)	
		40020	032	Skirt Liz Professio	GREEN/42	110	48			(0)	36(5)	12(0)	
		40020	033	Skirt Liz Professio	GREEN/44	110	48			(0)	36(5)	12(0)	
		40020	034	Skirt Liz Professio	GREEN/46	110	48			(0)	36(8)	12(0)	
		40020	035	Skirt Liz Professio	BLACK/34	110	48			(0)	36(37)	12(0)	
		40020	036	Skirt Liz Professio	BLACK/36	110	48			(0)	36(29)	12(0)	
		40020	037	Skirt Liz Professio	BLACK/38	110	48			(0)	36(7)	12(0)	
		40020	038	Skirt Liz Professio	BLACK/40	110	48			(0)	36(15)	12(0)	
		40020	039	Skirt Liz Professio	BLACK/42	110	48			(0)	36(17)	12(0)	
		40020	040	Skirt Liz Professio	BLACK/44	110	48			(0)	36(17)	12(0)	~
	•							- F	•			III	E.
								Line	▼ <u>E</u> ur	nctions	▼ <u>B</u> uyer's P	Express Entr.	Help

The marked boxes show the Buyer ID and/or Buyers Group that need to be filled in to have the Purchase Replenishment Journal visible in the workbench.

#### Transfer Order

The headline shows all the Transfer Order Documents that have not originated from a Transfer Replenishment Journal and the Buyer or the Buyer Group responsible. It is possible to drill down to the Document Number to show the Document.

Expand	Description	No. of Lines	Document T	Document No.	Location	Location	Message	F
•	Transfer Replenishment	3						
•	Buyer's Push Worksheets	5						
•	Transfer Order	16						
	Transfer	43	Transfer O	HO1015	W0001	S0003		
	Transfer	43	Transfer O	HO1016	S0003	S0002		
	Transfer	43	Transfer O	HO1017	W0001	S0007		
	Transfer	43	Transfer O	HO1018	W0001	S0005		
1	Transfer	40	Transfer O	HO1019	W0001	S0003		
	Transfer	40	Transfer O	HO1020	W0001	S0004		
1	Transfer	40	Transfer O	HO1021	W0001	S0007		
	Transfer	40	Transfer O	HO1022	W0001	S0005		
	Transfer	3	Transfer O	HO1023	S0001	S0002		
1	Transfer	3	Transfer O	HO1024	S0001	S0002		
1	Transfer	6	Transfer O	HO1025	) S0002	S0001		
	1			11	-			

The Retail Transfer Order window is found at the LS Retail – Replenishment, Retail Transfer Order.

Seneral   1 Transfer Ty External Do	ransfer-from Transfer-to Foreign Trade Replenshment Special Order pe Planned Cros		
uyer ID , uyer Grou	p Code		
reated By	Source Code.		
Item No	. Description	Quantity Unit of M	Qty. to R Shipment
• 40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	6 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	6 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	6 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.03
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	6 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	12 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	12 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	6 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	0 PCS	15.08.03
	1020 Skirt Liz Professional Wear	0 PCS	15.08.03
40	1020 Skirt Liz Professional Wear	12 PCS	15.08.07
40	1020 Skirt Liz Professional Wear	12 PCS	15.08.07
40	Sector Shire De Professional Wear		

The marked box that is displayed on the Retail Transfer Order that comes up when you select a document in the column Document No. shows the Buyers ID and/or Buyers Group that need to be filled in to have the Transfer Order visible in the workbench.

#### Transfer Order from Replenishment

The headline shows all the Transfer Order Documents that originated from a Transfer Replenishment Journal and the Buyer or the Buyer Group responsible. The functionality is the same as for **Purchase Order**.

#### Document Group

The headline shows all the Purchase Order and Transfer Order Documents connected to a Document Group and the Buyer or the Buyer Group responsible. It is possible to drill down to the Document Number to show the Document.

Group	Filter							
Expand	Description	No. of Lines	Document T	Document No.	Location	Location	Message	Planned C
•	Purchase Orders - Special Order	6						
•	Warehouse Replenishment	3						
•	Store Replenishment	1						
•	Transfer Replenishment	3						
•	Buyer's Push Worksheets	5						
•	Transfer Order	16						
•	Special Order Transfers	1						
•	Document Group	6						
•	Red Flag	1						
•	LIZ-s Fashion Ltd	44	Purchase O	HO106025	W0001		Expected Recei	4
•	Yellow Flag	1						
•	DAVI-s Fashion Ltd	42	Purchase O	HO106026	W0001			4
•	On given Date	1						
•	LIZ-s Fashion Ltd	44	Purchase O	HO106025	W0001		Day 14.08.07	4
•	Summer 2007	2						
•	Campaigns	1						
•	CA00000001 General Campaign	6						
	Transfer	7	Transfer O	HO1026	W0001	S0001		
	Transfer	7	Transfer O	HO1027	W0001	S0002		
	Transfer	4	Transfer O	HO1028	W0001	S0001		
	Transfer	4	Transfer O	HO1029	W0001	S0002		
	AL-s Foods Ltd	7	Purchase O	HO106029	W0001			
	Oli-s Office Goods	4	Purchase O	HO106030	W0001			
•	Open Comment	1						
•	LIZ-s Fashion Ltd	44	Purchase O	HO106025	W0001		Need check wit	4
				T	-	05 44 47 05	an Pefresh	

The use of document grouping can be divided into two main steps. The first step is to set up the document groups to use. The second step is to assign a group to a document and enter the additional information associated with that group if needed. The setup is part of

Replenishment Setup and the assigning of groups is part of the Purchase and Transfer Order forms.

Code	Description	Туре	Priority	Date Type	Value
CAMPAIG	Campaigns	Campaign	50		
COMMENT	Open Comment	Comment	100		
GREEN	Green Flag	Flag	3		
INWEEK	In Week	Date	11	Week	
ONDATE	On given Date	Date	10	Day	
RED	Red Flag	Flag	1		
SUMMER0	7 Summer 2007	Season	20		SUMMER07
WINTER0	7 Winter 2007-2008	Season	21		WINTER07
YELLOW	Yellow Flag	Flag	2		

The Document Groups window is to be found at LS Retail – Replenishment, Setup, Other, Document Group Setup.

#### **Document Groups Setup**

The following settings in the Document Groups can be defined as such:

• Flag

For grouping documents to be viewed in the Buyer's Workbench. The name of the flag does not need be the name of a color as in the examples.

) D	ocument Gr	oups					×
	Code	Description	Type	Priority	Date Type	Value	
	CAMPAIGN	Campaigns	Campaign	50			
	COMMENT	Open Comment	Comment	100			
▶	GREEN	Green Flag	Flag 💌	3			
	INWEEK	In Week	Date	11	Week		
	ONDATE	On given Date	Date	10	Day		
	RED	Red Flag	Flag	1			
	SUMMER07	Summer 2007	Season	20		SUMMER07	
	WINTER07	Winter 2007-2008	Season	21		WINTER07	
_	YELLOW	Yellow Flag	Flag	2			

	sroup	Filter								
E	rpand	Description	No. of Lines	Document Type	Document No.	Location	Location	Message	Planned C	
	•	Purchase Orders - Special Order	6							
	•	Warehouse Replenishment	3							
-		Store Replenishment	1							
-		Transfer Replenishment	3							
		Buyer's Push Worksheets	5							
-	1	Transfer Order	16							
		Special Order Transfers	1							
	Ť.,	Document Group	6	(	-					
	÷.	Red Flag	1		<u>.</u>			Even stad David	-	
	1	LLZ-S Fashion Ltd	44	POs from Replenishme	nt ^	W0001		Expected Recei	4	
	1	Yellow Flag	1	Warehouse Replenishr	nent	1410001			-	
	1	DAVI-S Fashion Ltd	42	Store Replenishment		W0001			4	
	1	Un given Date	1	Transfer Replenishmer	E	1410001		Dev. 14.00.07	-	
	- C	European 2007		Buyer's Push Workshe	ets	W0001		Day 14.08.07		
	4	Summier 2007	2	Transfer Order						
	÷.	CA0000001 General Campaign	1	Degument Crown	epienishment					
		Transfer	7	Transfer Order	HQ1026	W0001	50001			
		Transfer	7	Transfer Order	HO1027	W0001	50001			
		Transfer	4	Transfer Order	HO1028	W0001	50001			
t		Transfer	4	Transfer Order	HO1029	W0001	50002			
t		AL-s Eoods Ltd	7	Purchase Order	HQ106029	W0001	50002			
		Oli-s Office Goods	4	Purchase Order	HO106030	W0001				
	•	Open Comment	1							
t		LIZ-s Fashion Ltd	44	Purchase Order	HO106025	W0001		Need check wit	4	

#### Date

For date marking the document and it will only appear in the Buyer's Workbench once the date condition has been reached.

This gives the buyer the possibility to have the document brought to his attention if it still exists when the date condition is reached.

INWEEK	In Week	Date	11	Week
ONDATE	On given Date	Date	10	Day

The types of date conditions are: Day, Week, Month, Quarter and Year.

Season

For connecting a document to a Season and it is then shown under the Season Code in the Buyer's Workbench. This should simplify the management of current and coming seasons for the buyer

SUMMER07	Summer 2007	Season	20	SUMMER07
WINTER07	Winter 2007-2008	Season	21	WINTER07

It is necessary to specify records for each season code for them to be available for selection in the Document Grouping connecting form.

#### Event

For connecting a document to an Event and it is then shown under the Event Code in the Buyer's Workbench. This is the same functionality as the Season Code.

#### • Comment

For attaching comments to documents to be viewed in the Buyer's Workbench

• Campaign

For connecting documents to Campaigns to be viewed in the Buyer's Workbench and within the Campaign document. This should simplify things and give the buyer a good overview of the logistics, both in Purchase and Transfer Orders for a Campaign. See LS Retail – BackOffice, Offers, Retail Campaign, Documents and Replenishment tabs.

_									_	
	Description			Documer	nt Docume	nt Location .	Location M	Message		
•	Transfer			Transfe	r HO1026	5 W0001	S0001			
	Transfer			Transfer	r HO102	7 W0001	S0002			
	Transfer			Transfer	r HO1028	B W0001	S0001			
	Transfer			Transfe	r HO1029	9 W0001	S0002			
	AL-s Foods Lt	d		Purchas	e HO1060	029 W0001				
	Oli-s Office Go	ods		Purchas	e HO1060	030 W0001				
)ffer:	s Pages R Offer Type Promotion	Offer No. S10002	Selec	tion I	Offer Line	Description Soft drink pron	otion	Page No.	1	Est. (
Offers	s Pages R	offer No.	Selec	tion	Offer Line	Description		Page No.	E	Est. (
)ffers	s Pages R Offer Type Promotion Multibuy	Offer No. S 10002 P 1001	Selec Whol Line	tion I	Offer Line	Description Soft drink pron Multibuy - 5 -	iotion 5 %/Document	Page No.	6 1 2	Est. (
)ffers	S Pages R Offer Type Promotion Multibuy Multibuy	Offer No. S10002 P1001 P1001	Selec Whol Line Line	tion I	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 -	iotion 5 %/Document 5 %/Document	Page No.	1 2 2	Est. :
)ffers	S Pages R Offer Type Promotion Multibuy Multibuy MixMatch	Offer No. S10002 P1001 P1001 P1003	Selec Whol Line Line Whol	tion I le le	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 - Diary x2 + Sta	iotion 5 %/Document 5 %/Document pler	Page No.	1 2 2 3	Est. (
)ffers	S Pages R Offer Type Promotion Multibuy Multibuy MixMatch	Offer No. S10002 P1001 P1001 P1003	Selec Whol Line Line Whol	tion I le le	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 - Diary x2 + Sta	notion 5 %/Document 5 %/Document pler	Page No.	1 2 2 3	Est. :
)ffers	s Pages R Offer Type Promotion Multibuy Multibuy MixMatch	Offer No. 510002 P1001 P1001 P1003	Selec Whol Line Line Whol	tion I le le	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 - Diary x2 + Sta	iotion 5 %/Document 5 %/Document pler	Page No.	1 2 2 3	Est. (
)ffers	s Pages R Offer Type Promotion Multibuy Multibuy MixMatch	eplenishment Offer No. S10002 P1001 P1001 P1003	Selec Whol Line Line Whol	tion ) le	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 - Diary x2 + Sta	iotion 5 %/Document 5 %/Document pler	Page No.	E 1 2 2 3	Est. (
)ffers	S Pages R Offer Type Promotion Multibuy Multibuy MixMatch	eplenishment Offer No. S 10002 P 1001 P 1001 P 1003	Selec Whol Line Line Whol	tion I	Offer Line 10000 20000	Description Soft drink pron Multibuy - 5 - Multibuy - 5 - Diary x2 + Sta	iotion 5 %/Document 5 %/Document	Page No.	1 2 2 3	Est. (

No	CA000	00001		Last Refreshed	. 15.08	3.07 13:4
Description	Genera	al Campaign		Sales (Qty.)		16
Number of Pages .		3		Sales (LCY)		377,4
				COGS (LCY)		222,4
				Profit (LCY)		154,9
				Profit %		41.0
Offer Type	Offer No.	Selection	Offer Line	Description	Page No.	Est. :
Offer Type	Offer No.	Selection	Offer Line	Description	Page No.	Est. :
oner type	010000	and a				
Promotion	S10002	Whole	10000	Soft drink promotion		1 ^
Promotion     Multibuy	S10002 P1001	Whole Line	10000	Soft drink promotion Multibuy - 5 - 5 %/Document		1 ^ 2
Promotion     Multibuy     Multibuy     MixMatch	S10002 P1001 P1001 P1003	Whole Line Line Whole	10000 20000	Soft drink promotion Multibuy - 5 - 5 %/Document Multibuy - 5 - 5 %/Document Diary x2 + Stapler		1 * 2 3

#### **Connecting Document Groups to Documents**

The process is the same as for connecting a Document Group to a Purchase and Transfer Order. The user selects the *Document Group* function under the Order button in the document.



The Document Group Line form will be shown to the user. He first selects the Document Group Type and then specifies additional data like date or comment. One document can have numerous Document Group Lines.

	Document	Description	Start Date	End Date	Value	Comment	Type	
۲	RED	Red Flag					Flag	
	ONDATE	On given Date	14.08.07	14.08.07			Date	
	SUMMER07	Summer 2007			SUMMER07		Season	
	COMMENT	Open Comment				Need check with JIM	Comment	
	]							
	1							
	1							
	1							

#### **Viewing Document Groups**

The Buyer's Workbench (LS Retail – Replenishment, Buyers Workbench) will show grouped documents depending of their validation. All groups except the date type are valid only by assigning, date groups are valid only after a given start date and will remain in scope from that day on.

•	Document Group	6					
-	Red Flag	1					
<b>•</b>	LIZ-s Fashion Ltd	44	Purchase Order	HO106025	W0001	Expected Recei	4
-	Yellow Flag	1					
- <b>F</b>	DAVI-s Fashion Ltd	42	Purchase Order	HO106026	W0001		4
-	On given Date	1					
- <b>F</b>	LIZ-s Fashion Ltd	44	Purchase Order	HO106025	W0001	Day 14.08.07	4
-	Summer 2007	2					
- <b>F</b>	LIZ-s Fashion Ltd	44	Purchase Order	HO106025	W0001	Expected Recei	4
- <b>F</b>	DAVI-s Fashion Ltd	42	Purchase Order	HO106026	W0001		4
-	Campaigns	1					
- <b>F</b>	CA00000001 General Campaign	6					
-	Open Comment	1					
•	LIZ-s Fashion Ltd	44	Purchase Order	HO106025	W0001	Need check wit	4
<b>•</b>	Purchase Contract	3					

## 6 Recall

**LS Retail – Replenishment, Recall** is used to create Transfer Orders from stores to warehouse or between stores, add items to worksheet and view additional data. Buyers Push is always from warehouse, but in Recall the most common way is to add the items back to the warehouse, but it is also possible to transfer the items from one store to another, for instance if certain items are sold out in one store but available in another one.

Items to recall are entered into the Recall Worksheet / Recall Matrix; that is, the item no. and the variant code, for variant items, along with the quantity to recall. This can be done by entering the information manually or by running predefined processes.

The default insert process asks how many days in the past should be analyzed to find the average sale per day and then how many days of stock coverage the store is allowed to hold.

This procedure is used:

- 1. Add Items to Worksheet
- 2. View Additional Data
  - a. Inventory in Location
  - b. Sales Figures in Location
    - a. Create the Transfer Orders

The functionality can be used to:

- Recall overstock at stores to the warehouse and then replenish to stores that are under stocked.
- Move discontinued stock from stores to a discount store.

### 7.3 Scenario 8 – Guinness Sold Out by the South Coast

Item 359010, Guinness beer, is totally sold out in the pubs by the south coast of England. None are available in the warehouses at the moment. There is however plenty of this brand available in the north. Recall is used to transfer the beer. Since there is a bit of a hurry, the beer is not first transferred to the warehouse but instead directly to the stores that serve the pubs that need them, since it was clear who they were.

RC00003 - Recall Mat	rix													
	RC00003		Dat	e Created	[		02.11.1109	:58						
			Cre	ated by U	er	SUP	ER							
cription	S0004 (1) Cronus Fashior SUPER (1)	Target s	Sho hop Sho Dat	ow Invento ow Sales Fi ce Filter for	ry in Loc [ gures in [ Sales Fi	7								
Variant				Quantity I	o New	Re	ez HO Head	50001	S0001	S0002	S0002	S0003	\$0003	Ī
Item No. Code	Description	Description 2	Inventory	Recall	Inventory	Co	oc Office	Cronus	Cronus	Cronus	Cronus	Cronus	Cronus	•
34003	Chicken		0		0									
34072	Tomato Sauce		0		•									
34073	Chili Sauce		0		-									
34074	Mustard		0		0									
35000	Lager		0	32	1 32	1		11		310				
35010	Guinness		0	18	5 18	5		27		158				
35020	Multina Chandranau		0	10	7 10			150		4-	Fro	m nere		
35030	Note whe - Chardonnay		0	19	/ 19	0		150		-1/				
35040	Red Whe - Carbernet S.		0	30	9 30	19		280		25	1			
28002	Asprin		0		0									
40000	Swimavit Linda Roadh		1		•								,	
40010	Towel Linda Beach		1		4	5							2	
40020 00	10 Skirt Linda Professional Wear	VELLOW/34	50	6	. 11	0						10	,	
40020 00	11 Skirt Linda Professional Wear	YELLOW/36	66	6	8 13	4						10	,	
.0020 00	12 Skirt Linda Professional Wear	YELLOW/38	77	8	0 15	7						-	2	
40020 00	a one contrat i of costorial wear	100011/00		7	0 13	6								
40020 00	3 Skirt Linda Professional Wear	YELLOW/40				- <b>-</b>							•	

If the checkbox: Show Inventory in Location is marked the items in each store is shown:

ription		RC00003 💽		Dai	te Created ated by Us	er	0: UPER	2.11.11 09 R	:58					
all Locati er ID . er Group	on Code	SUPER	Store South	Sho Sho Dat	ow Inventor ow Sales Fig te Filter for	y in Loc.		)						
Item No	Variant o. Code	Description	Description 2	Inventory	Quantity to Recall	New Inventory	Rea Coc	HO Head Office	S0001 Cronus	S0001 Cronus	S0002 Cronus	S0002 Cronus	S0003 Cronus	S0003 Cronus
3	4003	Chicken		0	C			(0)	(-3.790)	(0)	(-3.790)	(0)	(0)	((
3	34072	Tomato Sauce		0	0			(0)	(0)	(0)	(0)	(0)	(0)	(
3	34073	Chili Sauce		0	C			(0)	(0)	(0)	(0)	(0)	(0)	(
3	34074	Mustard		0	C			(0)	(0)	(0)	(0)	(0)	(0)	(
3	35000	Lager		0	321	321		(0)	11(11)	(0)	310(310)	(0)	(0)	(
3	35010	Guinness		0	185	185		(0)	27(27)	(0)	158(158)	(0)	(0)	(
3	35020	Budwar		0	59	59		(0)	59(59)	(0)	(0)	(0)	(0)	(
3	35030	White Wine - Chardonnay		0	197	197		(0)	150(150)	(0)	47(47)	(0)	(0)	(
3	35040	Red Wine - Carbernet S.		0	309	309		(0)	280(280)	(0)	29(29)	(0)	(0)	(
3	8001	Aspirin		0	0			(0)	(0)	(0)	(0)	(0)	(0)	(
3	8002	Fluiaid		0	0			(0)	(0)	(0)	(0)	(0)	(0)	(
4	0000	Swimsuit Linda Beach		1	3	4	ł	(0)	(-14)	(0)	(0)	(0)	2(2)	(
4	10010	Towel Linda Beach		1	4	5		(0)	(-4)	(0)	(0)	(0)	3(3)	(
4	0020 00	0 Skirt Linda Professional Wear	YELLOW/34	50	60	110		(0)	(0)	(0)	(0)	(0)	10(10)	(
4	0020 00	1 Skirt Linda Professional Wear	YELLOW/36	66	68	134	•	(0)	(-2)	(0)	(0)	(0)	2(2)	(
4	0020 00	2 Skirt Linda Professional Wear	YELLOW/38	77	80	157	'	(0)	(-2)	(0)	(0)	(0)	3(3)	(
4	0020 00	3 Skirt Linda Professional Wear	YELLOW/40	66	70	136		(0)	(0)	(0)	(0)	(0)	4(4)	(
							b.	4			111			

It is also possible to see sales figures that are set for certain period of time. Then the **Show Sales Figures in Locations** checkbox is marked and the **Date Filter for Sales Figures** is set to the period of time where sales figures are needed from:

Show Inventory in Loc	
snow Sales Figures in	
Date Filter for Sales Fi	25.10.1026.11 10

To trigger transferring items from one store to another clicking the button **Recall** for **Create transfers** does the job. It is possible to add a **Reason code** to the transfer in the column **Reason code**:

escription	· · · · F	RC00003 主			Date Created Created by User	02	. 11. 11 09:
ecall Location Co uyer ID uyer Group	de §	Cronus Fashion	Stor	e South	Show Inventory in L Show Sales Figures i Date Filter for Sales	oc 🗖 n 🗖 Fi	
Item No.	Variant Code	Description	De	scription 2	Quantity to New Inventory Recall Inve	ntory Reas	son
34003		Chicken			0 0	_	
34072		Tomato Sauce			0 0		
34073		Chili Sauce		Reason Code	s 🚤 🗖 🗖		
34074		Mustard					
35000		Lager		Code	Description		
35010		Guinness		BBDATE	Best Before Date	~	
35020		Budwar		DAMCUS	Damaged by Customer		
35030		White Wine - Chardonnay		DAMSTAFF	Damaged by Staff		
35040		Red Wine - Carbernet S.		RBBDATE	Best Before Date		
38001		Aspirin		RDAMAGED	Damaged		
38002		Fluiaid		STOCKA	Stock adjustment - counting		6
40000		Swimsuit Linda Beach		STOLEN	Stolen		
40010		Towel Linda Beach		TOMUCH	Delivered to Much		
40020	000	Skirt Linda Professional Wear	YE	+ADJM.	Plus adjustment		
40020	001	Skirt Linda Professional Wear	YE	-ADJM.	Negative Adjustmnt		
40020	002	Skirt Linda Professional Wear	YE			Ŧ	
40020	003	Skirt Linda Professional Wear	YE	ОК	Cancel	Help	

Since Recall is often used to call in out of date items this can be an important feature. It is for instance used when outdated items are moved to the outlets of the same chain of stores or when too much of the item has been delivered.

## 7 Allocation Plans

An Allocation Plan can be used to create **Purchase Order**(s) and **Transfer Orders** Documents and **Sales Orders**. Before that can be done, the buyer must select items to work with, select an allocation rule with the correct stores and/or customers and finally enter the quantity to distribute. Then locations and/or customers to distribute items to must be selected. Default Allocation Rules and Dimension Patterns can be created and linked to Items to speed up this preparation process.

eneral ode . escript /areho /areho /areho	Buyer Docu ion	.         A00000029           .         Demo Defined Plan 2           .         W0002		Allocation Rule ( Default Dimensio	Code SPRIN	G	•					
Item	Variant No. Dimens	ion Item Description	Allocation Rule Code	Group Destina Recs Recs	tion Dimension Pattern Code	Dim. Recs Bi	uffer Otv.	Total Ouantity	Group 1 Quantity	Group 2 Quantity	Group 3 Quantity	Group 4 Quant
	1000	Bicycle		2	2				50/0/0	20/0/0		
	1001	Touring Bicycle	FASHION	1	2				0/0/0			
	1100	Front Wheel	FASHION	1	2				0/0/0			
	1110	Rim	FASHION	1	2				0/0/0			
	1120	Spokes	FASHION	1	2				0/0/0			
	1150	Front Hub	FASHION	1	2				0/0/0			
	1151	Axle Front Wheel	FASHION	1	2				0/0/0			
	1155	Socket Front	FASHION	1	2				0/0/0			
	1160	Tire	FASHION	1	2				0/0/0			
	1170	Tube	FASHION	1	2				0/0/0			
	1200	Back Wheel	FASHION	1	2				0/0/0			
	1250	Back Hub	FASHION	1	2				0/0/0			
	1251	Axle Back Wheel	FASHION	1	2				0/0/0			
	1255	Socket Back	FASHION	1	2				0/0/0			
												,

A buyer will be able to create an Allocation Plan for a range of items, define how to distribute it to stores and customers and finally convert it to purchase orders, planned cross docking transfer orders and/or sales orders. In addition to this, the buyer can determine how much of the quantity ordered is to be retained in the warehouse as buffer inventory.

Now you can use the Distribute – Qty. to Distribute function to actually distribute the quantity between the destination lines. It is also possible to specify a Warehouse Buffer Percentage and have the system calculate a buffer quantity that will be added to the purchase order lines. The buyer defines pattern quantities for each distribution group.

Allocation Plan Cross Docking Documents are created with the Allocation Plan Create Transfers functionality. That functionality can create multiple Purchase Orders for different Warehouses from a single Allocation Plan.

Further Information on the Allocation Plan features can be found in the **Allocation Plan -Quick Guide** for LS Retail NAV 6.3.

### 8 Replenishment new functionality and changes in LS Retail NAV 6.1

In this chapter the mayor changes made in later versions of Replenishment, from LS Retail NAV 6.1 on, are listed. In case the changes in later versions can be considered as minor amendments they are included in the corresponding chapters.

#### 8.2 Stock Coverage Alerts and Reports

This functionality enables management to set stock coverage goals for the inventory of stores.

A set goal (integer) means how many weeks you want your inventory to last based on sales history. A goal can be set for:

- Item Category and/or
- Product Group

If a goal is set for a Product Group, it is used for all items in that product group. If a goal is set for Item Category but not Product Group, the Item Category goal is used for all Items in the Item Category.

The goals are compared to how long the current inventory would actually last, given the same sales in the future. Purchase- and transfer orders are examined for three weeks ahead in time and actual coverage in weeks calculated respectively. Sales history is examined six weeks back in time by default but can be determined before the report is run. An item can be skipped from the report by giving an interval for accepted coverage difference from goal. This will allow the management to concentrate on Item Categories/Product Groups/Items that need attention.

The level of details in the report can be selected down to Items. Coverage goals can be set for Seasons and the report can be filtered to Store, Item Category and/or Product Group.

#### 8.3 Store Capacity Alerts and Reports

This functionality enables the management to set capacity goals for stores and compare them with current actual capacity. Goals can be set to Item Categories or down to Product Groups. Current capacity is calculated from Inventory (Qty.) at hand. Capacity per item can be adjusted by the Item Capacity Value factor, for example garment. Normally winter garments have more capacity than summer garments. Goals must be set in the Store Capacity table for all item categories or all product groups. The first line in the table will determine if product groups are used or not. The Store Capacity report will list all item categories/product groups requested by storing goals for them in the Store Capacity table. An item can be skipped from the report by giving an interval for accepted capacity difference from goal. This will allow the management to concentrate on Item Categories/Product Groups that need attention. The level of details in report can be selected down to Items. Capacity goals can be set for Seasons and the report action of the selected to Store, Item Category and/or Product Group.

# 8.4 Replenishment Rule - Auto Calculation of ratios according to specifications or not

In the earlier version of Replenishment it was possible to manually set weights for Replenishment Group or Locations. From LS Retail NAV 6.1 on auto calculation of ratios has been added and you can restrict the selection of items to Item Categories, Product Groups or single Item. Below is a screenshot of the Calculation tab after the changes:

📰 F/	ASHIONV	VOM - Repl	len. Rule						x
Ger	neral Ca	lculation							
Ru	n Frequen st Run Dat	cy	. <u>Date Formula</u> . 15.08.07	Item Division Code Item Category Code	. NONFOOD				
Ne	xt Run Tim xt Run Da	e te	. 13:53:29	Item No	. Doto Economic				
Ne	xt Run Da	te Formula	. 114	Date Calculation Type . Date Formula for Start	6M				
	Type	Code	Name		Veiaht	% Share	Default Weight	Exclude	
•	Location	S0001	Store 0001		0,00		60,00		
	Location	S0002	Store 0002		0,00		50,00		
	Location	S0003	Store 0003		500,00	50,00	18,00	1	
	Location	S0004	Store 0004		500,00	50,00	12,00		
							<u>R</u> ule 🔻	Help	Ŧ

This rule is accessible in the demo company and has the name **FASHIONWOM** and is selected in **LS Retail – Replenishment, Setup, Replenishment, Replenishment Rule, Rule** button, select **List**. The **Replen. Rules** card opens.

Code	Description	
DEFAULT	Default Replenishment Rule	
FASHIONCHI	Fashion - Children	
FASHIONMEN	Fashion Men - excl Small Store	
FASHIONWOM	Fashion - Women	
FURNITURE	Office Furniture	

Here we have selected women's clothing and we want the weight to be calculated based on a six month period starting nine months ago and until three months ago. If you set work date to 15<sup>th</sup> of July, 2007 and select Calculate from the Rule menu button:



You get the following result:

FASHIONWOM - Repl	en. Rule				E	- 0	×
eneral Calculation							
tun Frequency	Date Formula 💌	Item Division Code	. NONFOOD	۲			
ast Run Date	15.08.07	Item Category Code	. CLOTHING				
ast Run Time	13:53:29	Product Group Code	. WOMEN-S				
lext Run Date	15.09.07	Item No		٢			
lext Run Date Formula		Date Calculation Type .	. Date Formula				
		Date Formula for Start	. 6M				
		Date Formula for End	3M				
		Date Formula for End	3M				
Type Code	Name	Date Formula for End	3M Weight	% Share	Default Weight	Exclude	
Type Code Location S0001	Name Store 0001	Date Formula for End	3M Weight 0,00	% Share	Default Weight 60,00	Exclude	*
Type Code Location S0001 Location S0002	Name Store 0001 Store 0002	Date Formula for End	3M Weight 0,00 0,00	% Share	Default Weight 60,00 50,00	Exclude	-
Type Code ↓ Location S0001 Location S0002 Location S0003	Name Store 0001 Store 0002 Store 0003	Date Formula for End	3M Weight 0,00 0,00 500,00	% Share 50,00	Default Weight 60,00 50,00 18,00	Exclude	*
Type Code Location S0001 Location S0002 Location S0003 Location S0004	Name Store 0001 Store 0002 Store 0003 Store 0004	Date Formula for End	3M Weight 0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	*
Type Code Location S0001 Location S0002 Location S0003 Location S0004	Name Store 0001 Store 0002 Store 0003 Store 0004	Date Formula for End	3M Weight 0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	*
Type     Code       Location     S0001       Location     S0002       Location     S0003       Location     S0004	Name Store 0001 Store 0002 Store 0003 Store 0004	Date Formula for End	3M Weight 0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	

This means that - based on sales history - items will be replenished evenly to stores S0003 and S0004.

Run frequency can be set which means that the weights will be automatically updated. For example if you want the rule to rerun once every month you set Run Frequency to 'Date Formula' and Next Run Date Formula to '1M' (calculated from Last Run Date). Then the weights will be run in this case every 15<sup>th</sup> of the month.

🗊 FA	SHIONV	VOM - Rep	len. Rule				E		×
Gen	eral Ca	alculation							
Run	Run Frequency Date Formula 💌			Item Division Code	. NONFOOD	۲			
Las	t Run Dat	te	. 15.08.07	Item Category Code CLOTHING  Product Group Code WOMEN-S Item No					
Las	t Run Tim	e	. 13:53:29						
Nex	ct Run Da	te	. 15.09.07						
Nex	Next Run Date Formula .			Date Calculation Type Date Formula 💽					
				Date Formula for Start 6M					
				Date Formula for End	3M	3M			
	Type	Code	Name		Weight	% Share	Default Weight	Exclude	
Þ	Location	S0001	Store 0001		0,00		60,00		
	Location	S0002	Store 0002		0,00		50,00		
	Location	S0003	Store 0003		500,00	50,00	18,00		
	Location	S0004	Store 0004		500,00	50,00	12,00		
$\vdash$									-
						r.	1		_
							<u>R</u> ule 🔻	Help	

A scheduled job must be set up to run the calculations. The job should run **Codeunit 10012215 (Replen. Rule Calculation)**.

# Item to use sales history from another item - have the system sum the sales data from both items if the new item is replacing the other item:

Add a new field to the Item record to decide if the system should use combined sales or only from the substitute item.
### 8.5 How to Set Up Item record

The setup field is on the **Retail Item** card:

💷 40020 Skirt Liz Professio	onal Wear - Retail Iter	m Card			_	
Sortorder: . No.		Filters:				
Item Description						
No	40020	ø		Unit Price		64,00
Description	Skirt Liz Professional	Wear		Unit Price Including	g VAT .	80,00
Division Code	NONFOOD 主			Price Includes VAT	🔳	
Item Category Code				VAT Bus. Posting (	Gr. ( NATIONAL	
Product Group Code	WOMEN-S			Base Unit of Meas	ure PCS	٢
General Invoicing Ord	ering POS Pricing	Distribution	Tracking	Merchandising	Attributes 3rd P	P.POS
Season Code	SUMMER07		Reple	nishment Calcula	. Manual Estimate	
Lifecycle Length			Reord	ler Point		0
Lifecycle Starting Date			Maxim	num Inventory		0
Lifecycle Ending Date			Purch	. Order Delivery .	. To Warehouse	
Item Status Code	OPENST Open (	for Stores	Vendo	or No	. 4401	
Item Status Date	15.05.07		Trans	fer Multiple		6
Blocked on POS	Block Discount.		Order	Multiple		6
Block Purchasing	Block Promotion (	Price	Manua	al Estimated Daily.		5
Block Transfers	Block Periodic Dis	count.	Store	Stock Cover Req		5
	Block Manual Price	e Cha	Ware	h Stock Cover Re		10
Item Error Check Code .	١					
Item Error Check Status .	Failed					
Item Capacity Value	0,00					
Replen. Distribution R		- (				
Replenishment Grade	E		Not A	ctive for Replenis.		
	<u>I</u> tem ▼	S <u>a</u> les	▼ <u>P</u> ur	chases 🔻 F	inctions 👻	Help

### 8.6 Replen. Multiple Rounding

Rounding uses % to go up in multiples. The rounding is set at LS Retail – Replenishment, Setup, Replenishment, Replen. Multiple Rounding. In the column Type it is set whether the rounding is for Purchase or Transfer in a drop down list. In the column Rounding Precision one can type in a number for the precision in the rounding.

🖕 🗁 Setup							
🚊 🗁 Replenishment							
	E Keplen. Mult	iple Rounding					
	Type	Item Categor	Product Grou	Item No.	Vendor No.	Rounding Precision	%
	▶ Purchase					22	*
							-
Buyer Group							Help
🖡 👘 Item Import							

#### 8.6.1 How to Set Up Replen. Rule calculation fields

	FASHION	IWOM - Rep	ilen. Rule					- 0	×
[	General	Calculation							
	Run Frequ	ency	. Daily	Item Division Code	. NONFOOD				
	Last Run D	ate	. 15.08.07	Item Category Code	. CLOTHING				
	Last Run T	me	. 13:53:29	Product Group Code	. WOMEN-S	٢			
	Next Run [	ate	. 03.06.11	Item No					
				Date Calculation Type .	. Date Formula				
				Date Formula for Start	6M				
				Date Formula for End	3M				
	Type	Code	Name		Weight	% Share	Default Weight	Exclude	
	Locatio	n S0001	Store 0001		0,00		60,00		
	Locatio	n S0002	Store 0002		0,00		50,00		
	Locatio	n S0003	Store 0003		500,00	100,00	18,00	,	
	Locatio	n S0004	Store 0004		0,00		12,00		_
									_
									_
									Ŧ
							Rule 🔻	Help	
							interest of the second	( nep	

### 8.6.2 How to manually execute the calculation of a Replen. Rule

Select the function Calculate under the **Rule** button on the **Replen. Rule Card.** 



### 8.7 Add additional filtering fields to Replenishment Journals

Add filtering on Special Groups, Item Attributes and Item Dynamic Hierarchy to the Replenishment Journal Templates to be used for filtering Items when adding lines to a journal.

This new functionality will be controlled by the field **Ownership Send Date** and the two commands under it.

#### 8.8 How to Set Up Replen. Journal filtering

Set filtering on the **Replen. Journal – LS Retail – Replenishment, Setup, Replenishment, Replenishment Template, Filters** tab.

📰 RT00001 - Replen. Template	
General Filters	
Vendor No. Filter	ABC Amount Filter         ABC Profit Filter         Item Hierarchy Filter         Item Hierarchy Level F         Item Hierarchy Value F         Special Group Code Filter         Item Attribute Code Fil
Replenishm. Calc. Typ	Template Velue Fi

#### 8.9 How to add records to the Replen. Journal with new filters

At LS Retail – Replenishment, Purchase Replenishment Journal/Transfer Replenishment Journal, Functions button, Add Items to Journal there the fields concerning adding records to the Replenishment Journal are displayed. In LS Retail NAV 6.1 several new fields are introduced.

Field	Filter	
Item No.		
Item Division Code		
Item Category Code		
Item Product Group C		
Vendor No.		
Replenishment Calcul		
Store Group Filter		
Season Code		
ABC Amount		
ABC Profit		
Item Hierarchy Filter		
Item Hierarchy Level		
Item Hierarchy Value		
Special Group Code Fil		
Item Attribute Code F		
Item Atrribute Value F		
	Item No. Item Division Code Item Category Code Item Product Group C Vendor No. Replenishment Calcul Store Group Filter Season Code ABC Amount ABC Profit Item Hierarchy Filter Item Hierarchy Value Special Group Code Fil Item Attribute Code F Item Attribute Value F	Titler Ti

The user can change or add filters to the execution of the report.

# 8.10 Forward Sales Profile - the ability to define date calculation formula and if blank it would default use -1Y

In LS Retail NAV 6.1 a **Data Calculation Formula** and **Data Restriction Item** trigger fields were added to the Forward Sales Profile record.

When calculating Forward Sale, the system will subtract one year (-1Y) but the field **Period Date Formula** gives the ability to define a new date formula to be used. The field **Item No.** gives the ability to filter to the sales data of a specific Item No.

In the LS Retail NAV 6.1 the feature: How to set up the Forward Sales Profile was added.

111111 - Replen. Forw Sales Profile
General
Code
Description 1 Week Back and 1 Week Forward
Back Period Calc. Formula 1W
Forward Period Calc. Formula . 1W
Prior Period Date Formula 1M
Use Replenishment Calendar . 🔽
Restrict Data to:
Location Code 🔽
Item Division
Item Category 🔽
Product Group
Item No
Eorward 🔻 Help

### 8.10.1 Replenishment – Registration of Stock Out Quantity to determine when the store is out of stock

#### Example: Set to 3 as there are 3 display pieces:

Inventory may show that a store has 10 pieces of an item. However, 3 pieces are used for display and therefore the stock on hand for the store should show 7 pieces.

## 8.11 How to Set Up Unavailable Stock from the Replenishment Setup Menu

Select the form from the Replenishment Setup Menu, LS Retail – Replenishment, Setup, Replen. Unavailable Stock.



Enter the unavailable stock to the store/warehouse on the Replen. Unavailable Stock card.

	Item No		Variant Code	Location	Active From	Quantity	Comment	
	4	0020	026	S0001		2,00		
Þ	40050		026	S0001		2,00		

# 8.12How to Set Up Unavailable Stock from the Replenishment Setup Menu

Enter the Item No. and select Unavailable Stock from the Item Button, Replenishment, Unavailable Stock, see below:

	Card	chift ( FF	
	Caru Lint	51111775	
		+5	
	List by Barcodes		
	Stockkeeping Units		
	Entries	+	
	Statistics	•	
🛅 40030 Hat Liz Casual Wear	Items by Location		
Sortorder: . No.	Item Availability by	+	
Item Description	Comments		
No	Dimensions	Shift+Ctrl+D	16,00
Description Hat	Picture		20,00
Division Code NO	Variant Framework	Shift+Ctrl+V	
Item Category Code CLO	Collection		TIONAL
Product Group Code AC	Units of Measure		5
	Variants		
General Invoicing Orderin	Attributos		Attributes 3rd P
	Annoules		
Barcode No	Special Groups		89
Barcode Mask	Events		12
Special Group Code LIZ	Item Status		77
Variant Framework Code	Item In Hierarchy		0
Blocked	Assembly List	+	0
Item Family Code	Price History	•	7.788
Print Variants Shelf La	Barcodes		155.760,00
Date Created	Find Parcode	Shift+Ctrl+E	0
Created by User	Set Briggiby to 2rd B BOS - Transmission	Shire Currie	0.00
Last Date Modified	Set Priority to Srd P.POS - Transmission		
Last Modified by User	Actions	•	
Last Moulled by Oser Es	Store Information	+	
	POS	+	
	Item Linking	•	
	Text and Printing Setup	•	
	Replenishment	•	Replenishment Item Store
	Theme Calas Durations	- Function -	Location Quantities
	item  Sales  Purchases	Functions	Out of Stock Days
			Sales History Adjustment
			Dianned Sales Demand
			Danned Stock Demand
			Paplonich from Warehouse
			Unavailable Steak
			Unavailable Stock
			Multiplie Kounding Mr

📑 40030 Hat Liz Casu	al Wear - Re	tail Item Card	d				• X
Sortorder: . No.			Filters: .				
Item Description							
No		40030	ø		Unit Price	• •	16,00
Description	· · Hat Liz (	Casual Wear			Unit Price Including V	AT.	20,00
Division Code	NONFOO	DD 🗈			Price Includes VAT .	🔳	
Item Category Code	CLOTHI	NG 🗈			VAT Bus. Posting Gr.	( NATIONAL	١
🔲 Replen. Unava	ilable Stock					_ 0	×
Variant Code	Location C	Active Fro	Quantity	Corr	nment		
	S0001	01.01.09	2,	00 Disp	lay pieces		
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## 8.13 Replen. Distribution Rules for distributing stock in Automatic Replenishment, if limited stock Store Priority

The option to define **Replen. Distribution Rule** for Item Category, Product Group and/or Item to be used to control the sequence in which stores should be allocated limited stock in automatic replenishment. **Replenishment Type** field of the Replenishment Rule table is where **Auto-Single** allocates one multiple to each store in the priority sequence until none is left. The option **Auto-Full** will fully fill the request of the store in priority sequence until no stock is left.

FASHIONWOM - Replen. Rule	2			E		×
General Calculation						
Code	IONWOM					
Description Fashic	on - Women					
Replenishment Type Auto-	Single 💌					
Type Code Name	Weight		% Share	Default Weight	Exclude	
Type Code Name Location S0001 Store	Weight	0,00	% Share	Default Weight 60,00	Exclude	
Type Code Name Location S0001 Store Location S0002 Store	Weight 0001 0002	0,00	% Share	Default Weight 60,00 50,00	Exclude	
Type         Code         Name           Location         S0001         Store           Location         S0002         Store           Location         S0003         Store	Weight 0001 0002 0003	0,00 0,00 500,00	% Share 50,00	Default Weight 60,00 50,00 18,00	Exclude	
Type         Code         Name           Location         S0001         Store           Location         S0002         Store           Location         S0003         Store           Location         S0004         Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type         Code         Name           Location         S0001         Store           Location         S0002         Store           Location         S0003         Store           Location         S0004         Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type Code Name Location S0001 Store Location S0002 Store Location S0003 Store Location S0004 Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type         Code         Name           Location         S0001         Store           Location         S0002         Store           Location         S0003         Store           Location         S0004         Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type Code Name Location S0001 Store Location S0002 Store Location S0003 Store Location S0004 Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type Code Name Location S0001 Store Location S0002 Store Location S0003 Store Location S0004 Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	
Type Code Name Location S0001 Store Location S0002 Store Location S0003 Store Location S0004 Store	Weight 0001 0002 0003 0004	0,00 0,00 500,00 500,00	% Share 50,00 50,00	Default Weight 60,00 50,00 18,00 12,00	Exclude	

Auto-Single allocates one multiple to each store in a priority sequence determined by the column % Share until none is left and Auto-Full will fully fill the request of the store in the given priority sequence until no stock is left.

Now it is possible to define Replen. Distribution Rules for Item Division, Item Category, Product Group and/or Item to be used to control the sequence in which stores should have allocated limited stock in automatic replenishment. The Weights can be entered manually as in previous versions and can be calculated automatically based on sales history data, see the Calculation tab.

The Replenishment Rules define the sequence where the store with the highest weight is allocated to first.

Let us now use the above rule (accessible in Demo Company). This rule has been restricted to the Division **NONFOOD** and Category **FURNITURE** and the Weight column has already been calculated based on sales history data. We have 130 units to distribute in multiples of ten and Auto-Single has been selected. The 130 units will be shared in the following manner:

		Units		
Location	Weight	dispensed	Sugg. Qty.	Total units
S0003	37	10+10+10	50	30
S0002	22	10+10+10	40	30
S0001	19	10+10+10	50	30
S0004	18	10+10	30	20

S0005	10	10+10	20	20
Total		130	190	130

All locations get 20 = 100 since we only have 30 left (less than 50) the three locations with the highest Weight get one multiple more than the others, or 10 units each.

For the Replenishment Type **Auto-Full**, the weights are used in the same manner but the dispensing is different. The first location gets up to suggested quantity then the next location is examined if there is still some stock on hand:

		Units		
Location	Weight	dispensed	Sugg. Qty.	Total units
S0003	37	50	50	50
S0002	22	40	40	40
S0001	19	40	50	40
S0004	18	0	30	0
S0005	10	0	20	0
Total		130	190	130

### Appendix A

Fields for Replenishment Item Quantity:

Field Name	Description
Item No.	The Item Number
Variant Code	The Variant Code
Location Code	The Location Code of a Store that is valid for
	replenishment and location code of a warehouse
	that is the default warehouse as defined in the
	Replenishment From Warehouse table.
Inventory	The inventory status of records Location Code
	If the field <b>Calc. Otv. Sold not Posted</b> in the
	Replenishment Setup record is set, the value of
	the field <b>Otv. Sold not Posted</b> has been
	subtracted from the Inventory status.
Quantity on Purchase Order	The sum of the field <b>Outstanding Oty. (Base)</b> in
	all Purchase Order Lines
Quantity on Sales Order	The sum of the field <b>Outstanding Oty. (Base)</b> in
	all Sales Order Lines
Quantity in Transfer In	The sum <b>Outstanding Qty. (Base)</b> and <b>Qty. in</b>
	Transit (Base) of all Transfer Order Lines where
	the Location Code is filtered to the field
	Transfer-to Code.
Quantity in Transfer Out	The sum <b>Outstanding Qty. (Base)</b> of all Transfer
	Order Lines where the Location Code is filtered
	to the field Transfer-from Code.
Date Modified	The date when the record was last modified
Time Modified	The time when the record was last modified
Daily Sales	Calculated average daily sales
Sales Date From	
Sales Date To	
No. of Sales Dates	The number of days in the calculation of the
	Daily Sale
No. of Days Out of Stock	The number of days of zero stock days
Date of First Sale	
Adjusted Sales	The quantity the sales quantity was adjusted by,
	according to entries in the Replenishment Sales
	History Adjustments
Qty. Sold not Posted	The quantity of Transaction records that have
	not been posted in a Statement. This field is only
	calculated if the field Calc. Qty. Sold not Posted
	is set in the Replenishment Setup record
Replenish From Warehouse	The Location Code of the Warehouse the record
	will be replenished from
Item Division Code	The Division Code of the Item No. It is used for
	filtering when adding items to journals
Item Category Code	The Item Category Code of the Item No. Used
	for filtering when adding items to journals
Item Product Group Code	The Product Group Code of the Item No. Used
	for filtering when adding items to journals
Vendor No.	The Vendor No. that is going to be used when
	creating a Purchase Order.

Replenishment Calculation Type	The Replenishment Calculation Type to be used
	in the replenishment process
Replenish as Location Code	
Store Group Filter	
Season Code	The Season Code of the Item No.
Replenish as Item No.	Filled in if the sales history is to be used from
	another Item No.
Planned Sales Demand	The quantity from the Replenishment Planned
	Sales Demand records to overwrite the
	calculated daily sales amount from sales history
PO Blocked	Set if the Item No. is blocked for Purchase Orders
	from the Item Status table
TO Blocked	Set if the Item No. is blocked for Transfer Orders
	from the Item Status table
Is a Whse	The Location Code of the record is a warehouse
Replen. Whse Data Exists	An Item Store record exists for the warehouse
Replen. Source	Specifies if the Replenishment Data is from the
	Item, Item Store or Data Profile record
Replen. Code	Contains the Item No. or the Data Profile Code
Replen. Variant	The Variant Code
Replen. Location	The Location Code of the Item Store record
Replen. Valid	Contains the Valid from date for the Item Store
	or the Data Profile record
In Distribution	Set if the Item No is in distribution for the
	Location